

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061220\
 Data File : VN061785.D
 Acq On : 12 Jun 2020 12:53
 Operator : JC/MD
 Sample : L2988-16DL 5X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE134D4-20200609DL

Quant Time: Jun 13 05:10:56 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

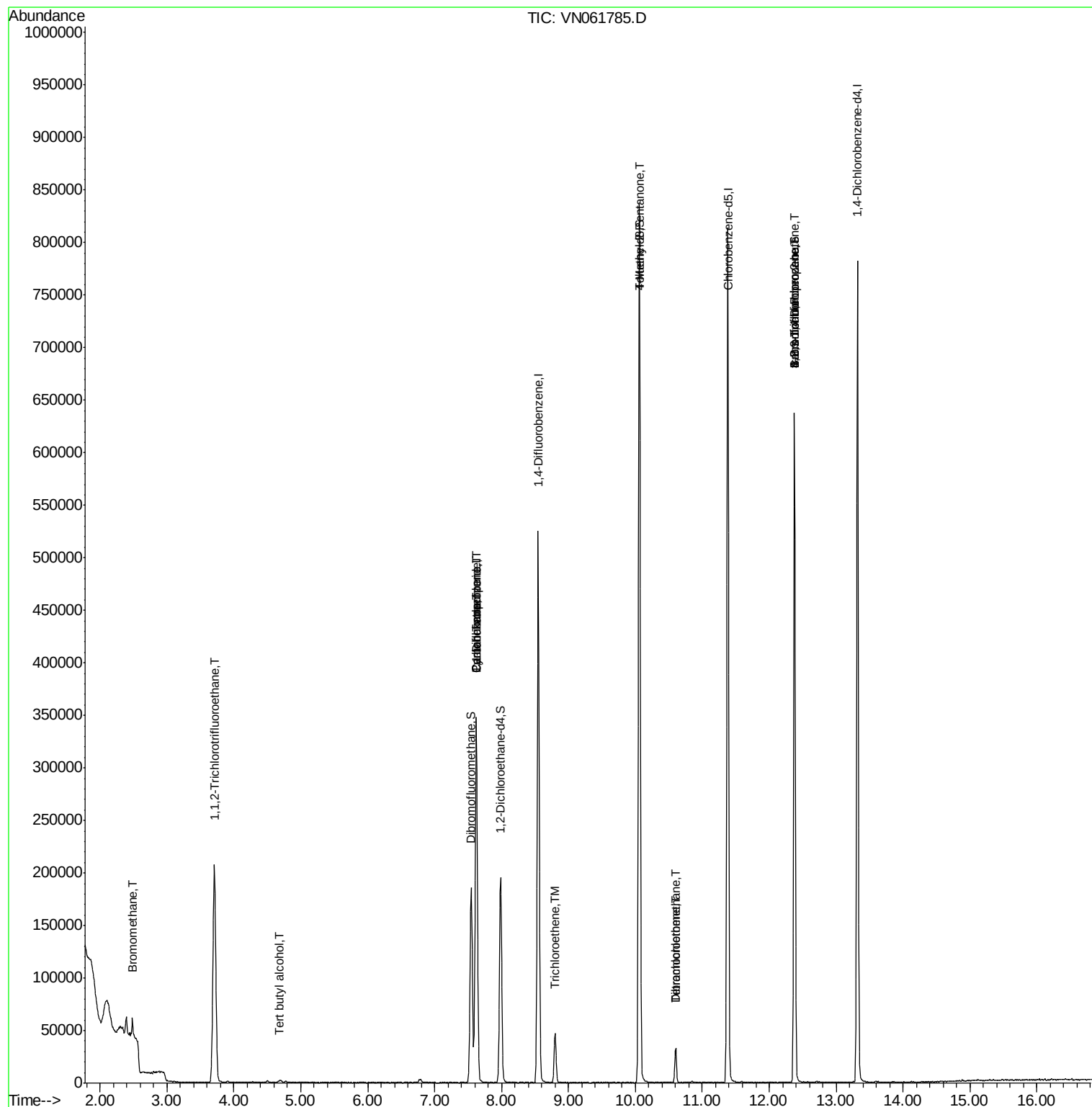
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	301691	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	502416	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	504860	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	223184	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	165408	46.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.04%	
35) Dibromofluoromethane	7.54	113	142463	55.90	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.80%	
50) Toluene-d8	10.06	98	606133	51.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.64%	
62) 4-Bromofluorobenzene	12.38	95	216635	50.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.54%	
Target Compounds						
					Qvalue	
5) Bromomethane	2.48	94	1483	0.513	ug/l	85
9) 1,1,2-Trichlorotrifluoroet	3.71	101	131925	45.720	ug/l	96
11) Tert butyl alcohol	4.69	59	1154	2.414	ug/l #	72
16) Acetone	3.77	43	361	Below Cal	#	41
20) Methylene Chloride	4.51	84	778	Below Cal	#	82
31) Cyclohexane	7.62	56	5197	1.026	ug/l #	1
36) 1,1-Dichloropropene	7.62	75	19797	4.451	ug/l #	48
38) Carbon Tetrachloride	7.63	117	28146	6.561	ug/l #	16
44) Trichloroethene	8.80	130	18420	4.368	ug/l	94
51) 4-Methyl-2-Pentanone	10.06	43	2149	0.592	ug/l #	1
60) Dibromochloromethane	10.60	129	7004	1.726	ug/l #	11
64) Tetrachloroethene	10.60	164	8147	1.714	ug/l	95
71) Bromoform	12.38	173	1916	0.636	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	104160	25.666	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	104160	65.634	ug/l #	15

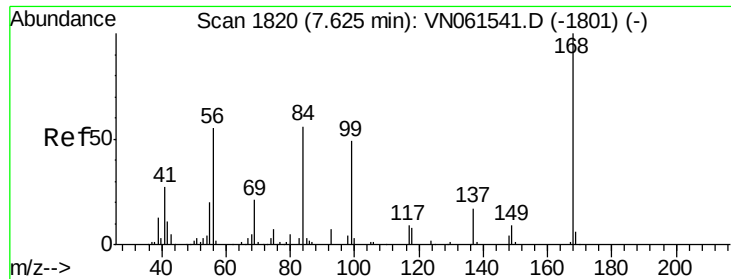
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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: VN061785.D

Acq: 12 Jun 2020 12:53

Instrument :

MSVOA_N

ClientSampleId :

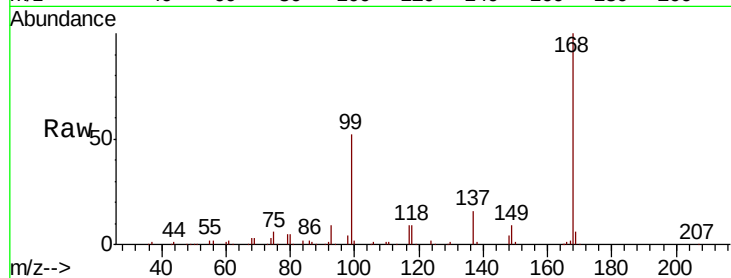
RE134D4-20200609DL

Tot Ion:168 Resp: 301691

Ion Ratio Lower Upper

168 100

99 52.0 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

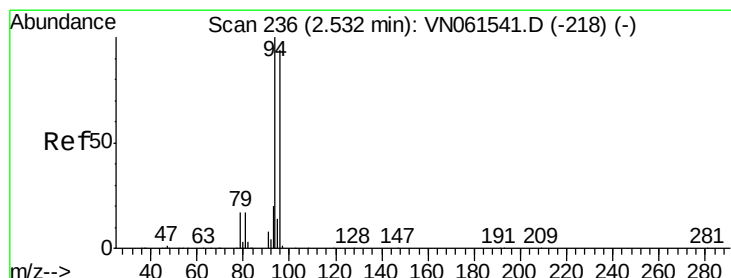
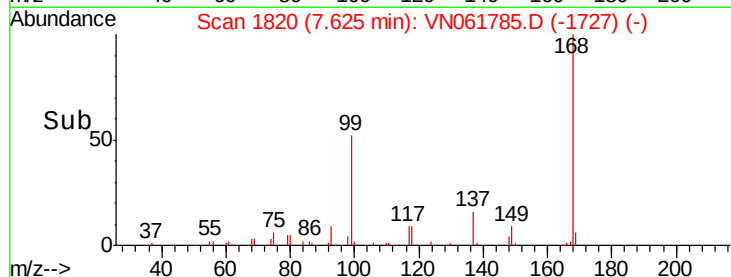
150000

100000

50000

0

Time--> 7.50 7.60 7.70



#5

Bromomethane

Concen: 0.513 ug/l

RT: 2.48 min Scan# 221

Delta R.T. -0.05 min

Lab File: VN061785.D

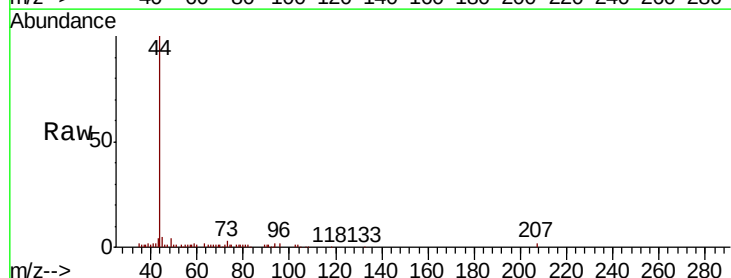
Acq: 12 Jun 2020 12:53

Tgt Ion: 94 Resp: 1483

Ion Ratio Lower Upper

94 100

96 79.1 74.8 112.2



Abundance Ion 93.90 (93.60 to 94.60): VN

Ion 95.90 (95.60 to 96.60): VN

2.48

800

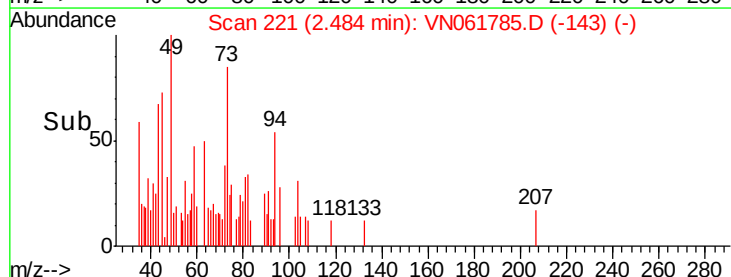
600

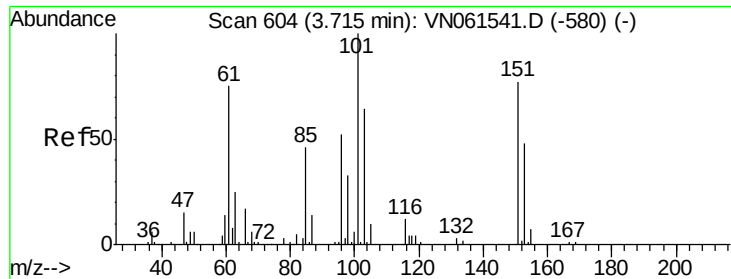
400

200

0

Time--> 2.45 2.50 2.55





#9

1,1,2-Trichlorotrifluoroethane

Concen: 45.720 ug/l

RT: 3.71 min Scan# 602

Delta R.T. -0.01 min

Lab File: VN061785.D

Acq: 12 Jun 2020 12:53

Instrument :

MSVOA_N

ClientSampleId :

RE134D4-20200609DL

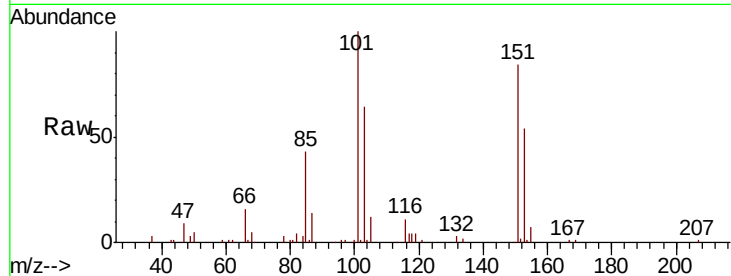
Tot Ion:101 Resp: 131925

Ion Ratio Lower Upper

101 100

85 42.7 35.2 52.8

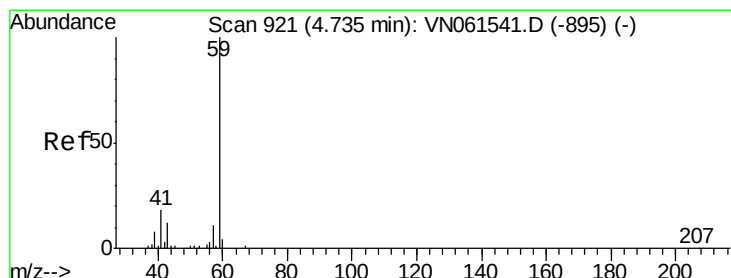
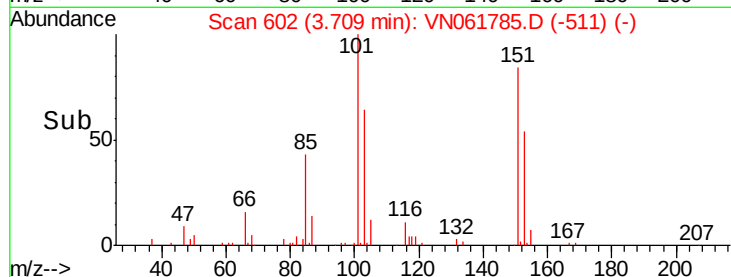
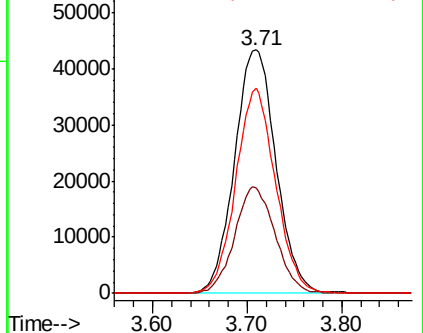
151 80.9 61.0 91.6



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



#11

Tert butyl alcohol

Concen: 2.414 ug/l

RT: 4.69 min Scan# 906

Delta R.T. -0.05 min

Lab File: VN061785.D

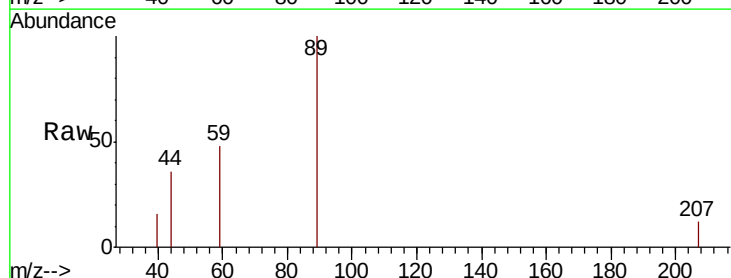
Acq: 12 Jun 2020 12:53

Tgt Ion: 59 Resp: 1154

Ion Ratio Lower Upper

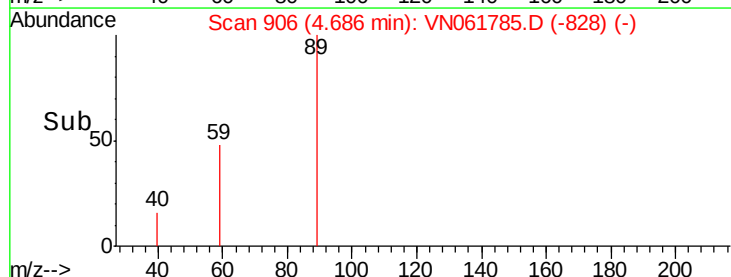
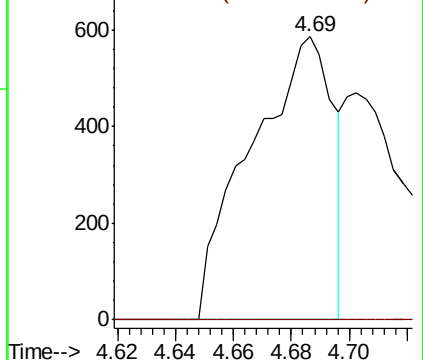
59 100

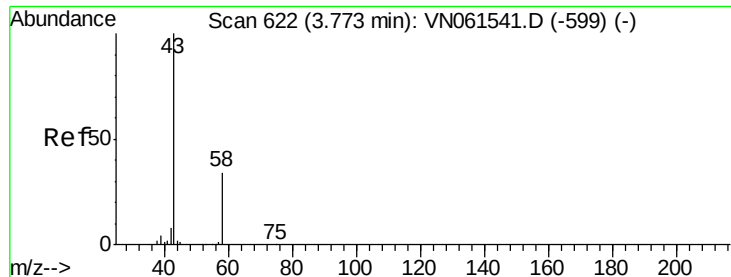
57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0





#16

Acetone

Concen: Below Cal

RT: 3.77 min Scan# 620

Delta R.T. -0.01 min

Lab File: VN061785.D

Acq: 12 Jun 2020 12:53

Instrument :

MSVOA_N

ClientSampleId :

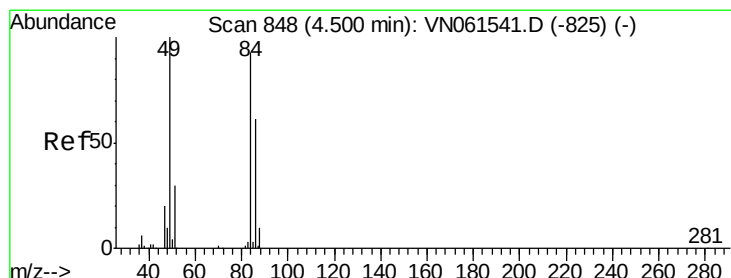
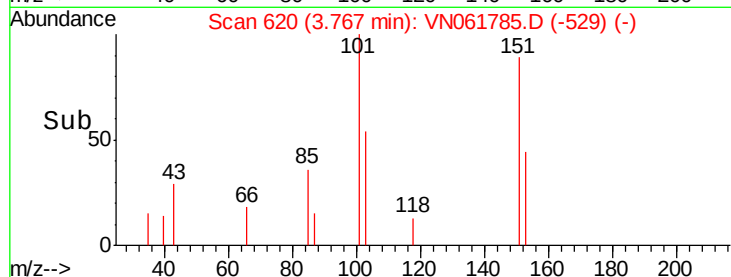
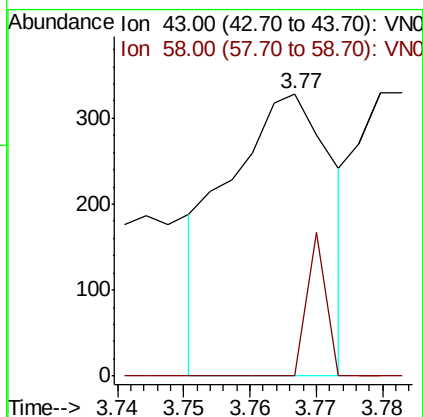
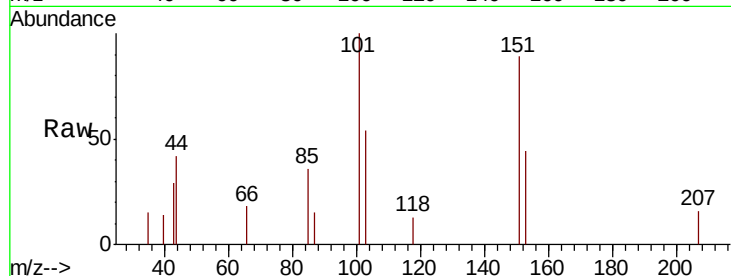
RE134D4-20200609DL

Tot Ion: 43 Resp: 361

Ion Ratio Lower Upper

43 100

58 0.0 27.2 40.8#



#20

Methylene Chloride

Concen: Below Cal

RT: 4.51 min Scan# 850

Delta R.T. 0.01 min

Lab File: VN061785.D

Acq: 12 Jun 2020 12:53

Tgt Ion: 84 Resp: 778

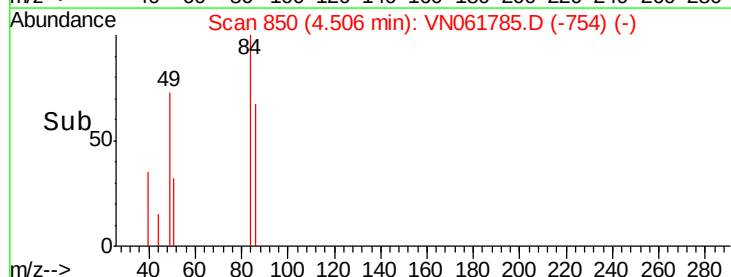
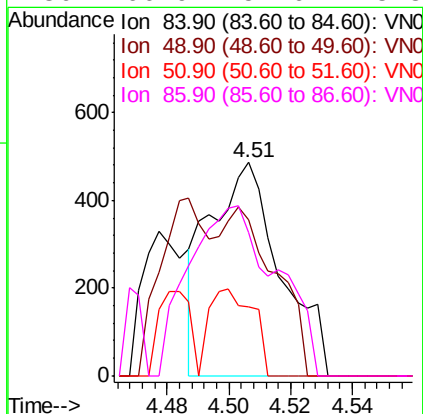
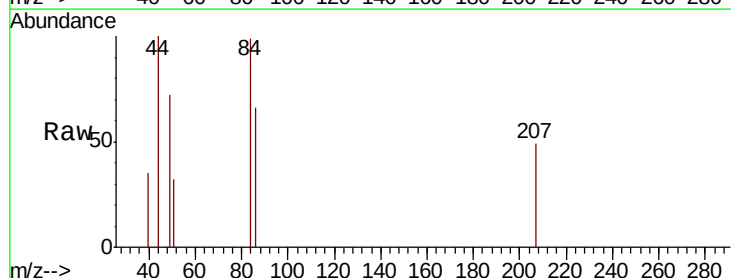
Ion Ratio Lower Upper

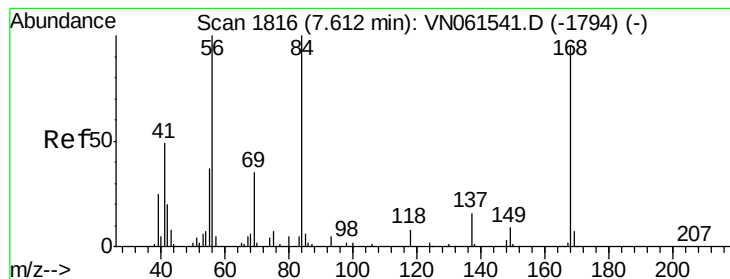
84 100

49 73.3 85.8 128.8#

51 32.0 26.2 39.2

86 66.9 52.6 78.8





#31

Cyclohexane

Concen: 1.026 ug/l

RT: 7.62 min Scan# 1819

Delta R.T. 0.01 min

Lab File: VN061785.D

Acq: 12 Jun 2020 12:53

Instrument :

MSVOA_N

ClientSampleId :

RE134D4-20200609DL

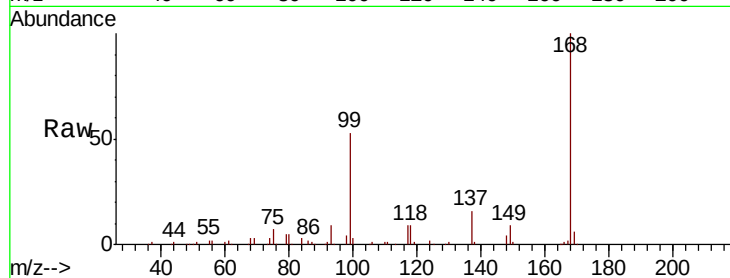
Tot Ion: 56 Resp: 5197

Ion Ratio Lower Upper

56 100

69 189.7 27.8 41.8#

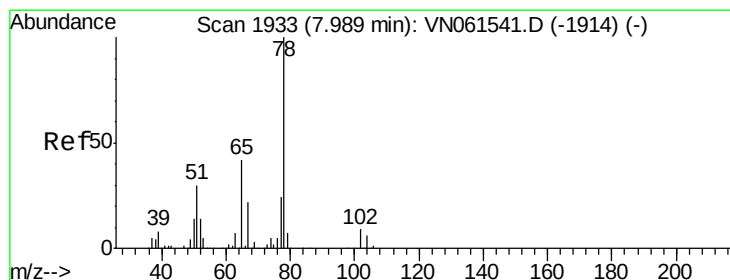
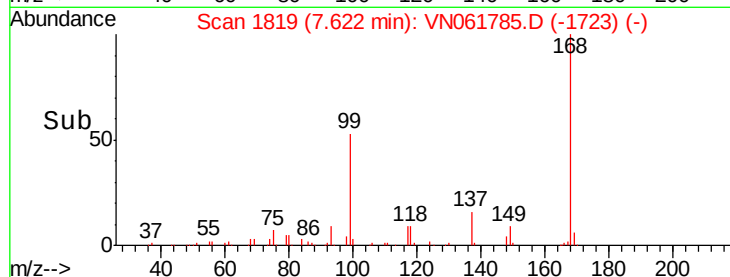
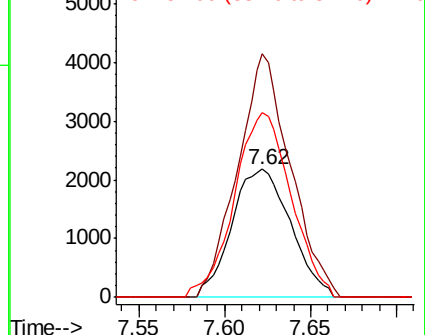
84 143.5 79.9 119.9#



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: 46.017 ug/l

RT: 7.99 min Scan# 1932

Delta R.T. -0.00 min

Lab File: VN061785.D

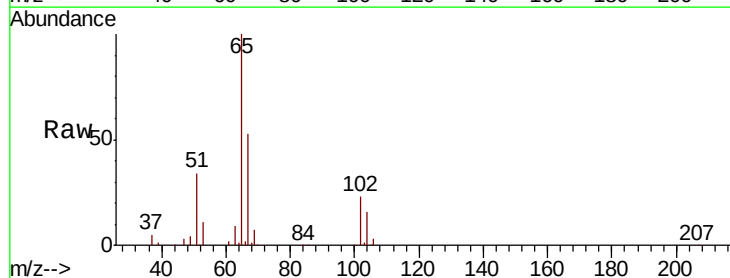
Acq: 12 Jun 2020 12:53

Tgt Ion: 65 Resp: 165408

Ion Ratio Lower Upper

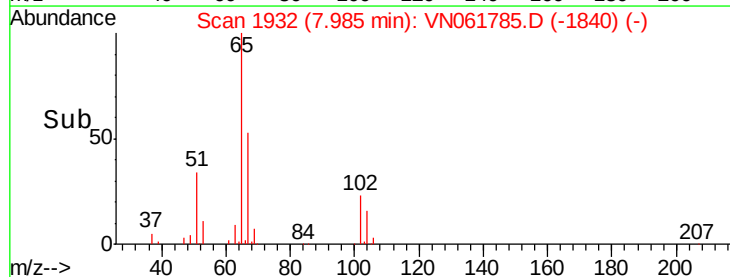
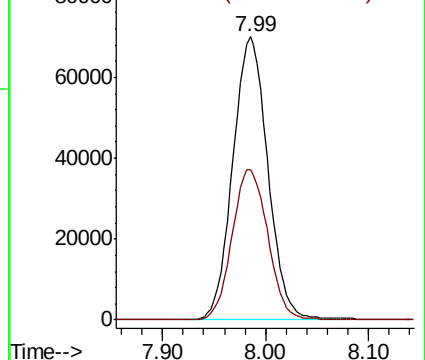
65 100

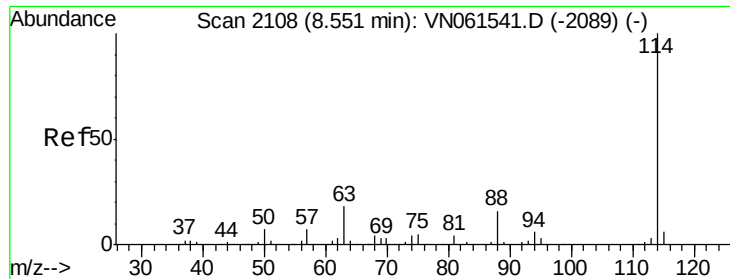
67 54.2 0.0 104.8



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

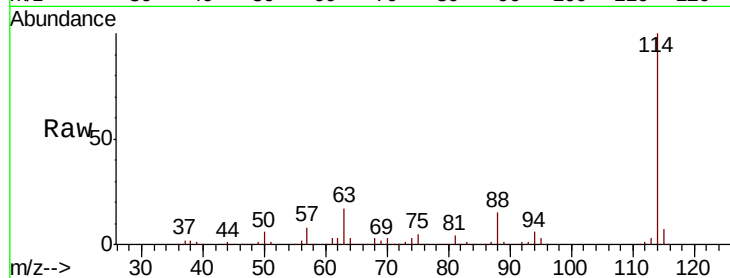




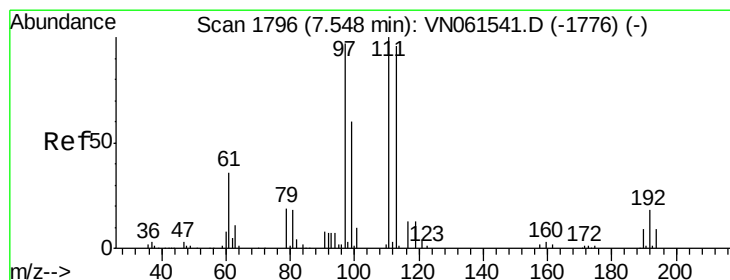
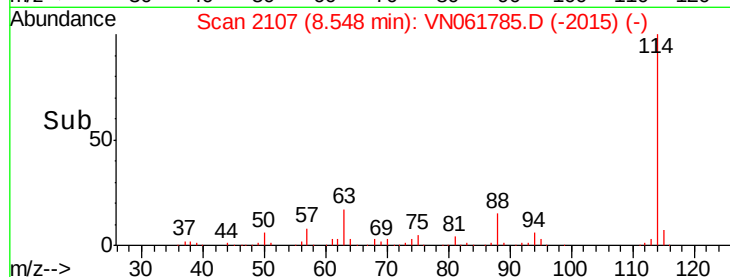
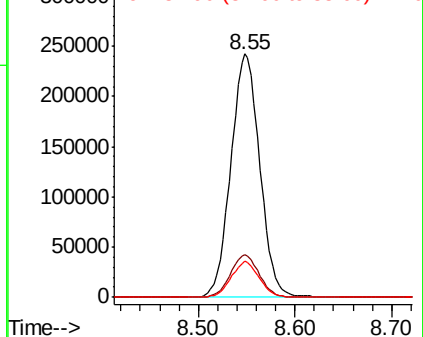
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2107
 Delta R.T. -0.00 min
 Lab File: VN061785.D
 Acq: 12 Jun 2020 12:53

Instrument :
 MSVOA_N
 ClientSampleId :
 RE134D4-20200609DL

Tot Ion:114 Resp: 502416
 Ion Ratio Lower Upper
 114 100
 63 17.4 0.0 35.8
 88 14.7 0.0 31.0

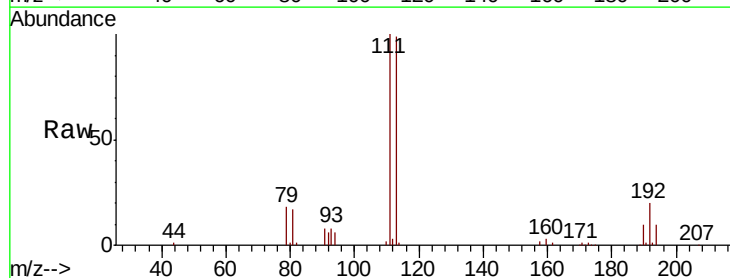


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

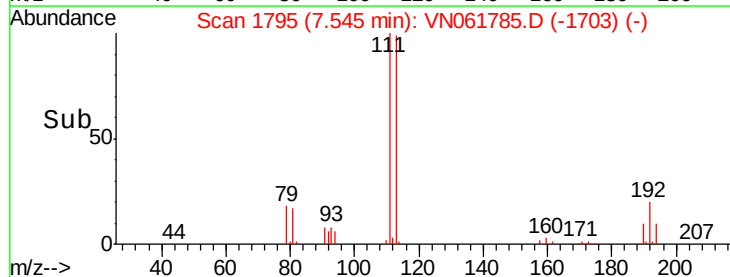
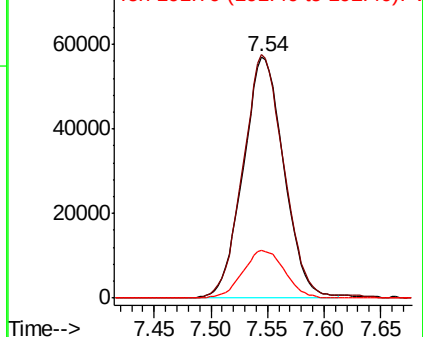


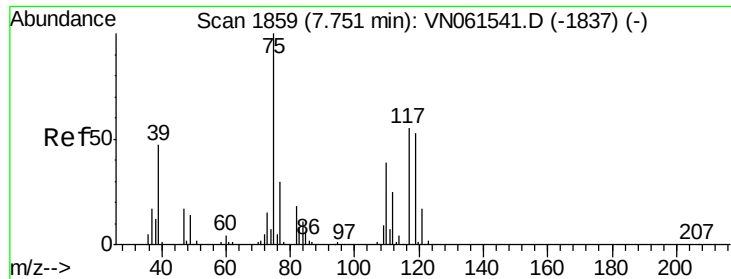
#35
 Dibromofluoromethane
 Concen: 55.897 ug/l
 RT: 7.54 min Scan# 1795
 Delta R.T. -0.00 min
 Lab File: VN061785.D
 Acq: 12 Jun 2020 12:53

Tgt Ion:113 Resp: 142463
 Ion Ratio Lower Upper
 113 100
 111 102.0 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





#36

1,1-Dichloropropene

Concen: 4.451 ug/l

RT: 7.62 min Scan# 1819

Delta R.T. -0.13 min

Lab File: VN061785.D

Acq: 12 Jun 2020 12:53

Instrument :

MSVOA_N

ClientSampleId :

RE134D4-20200609DL

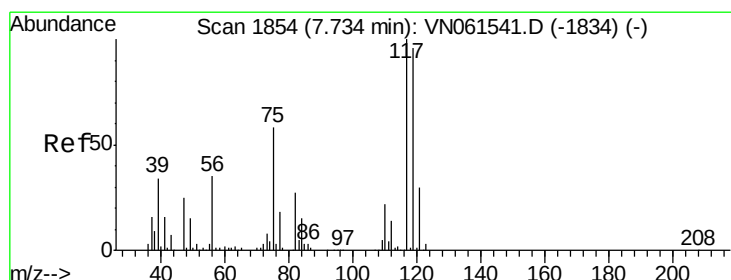
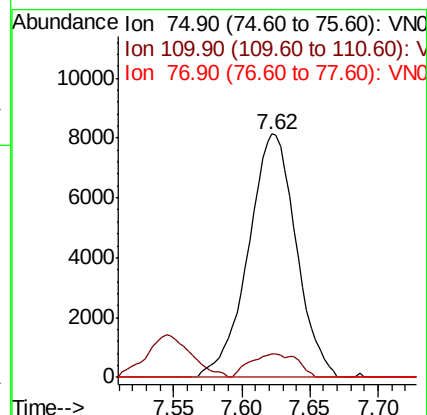
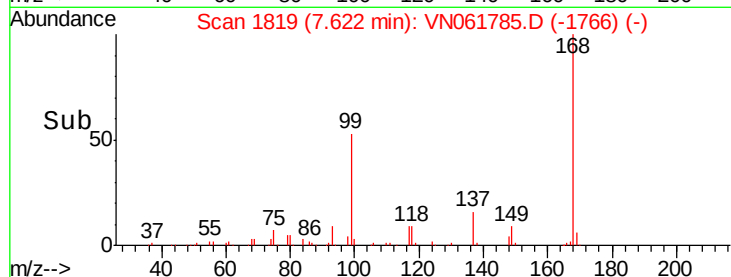
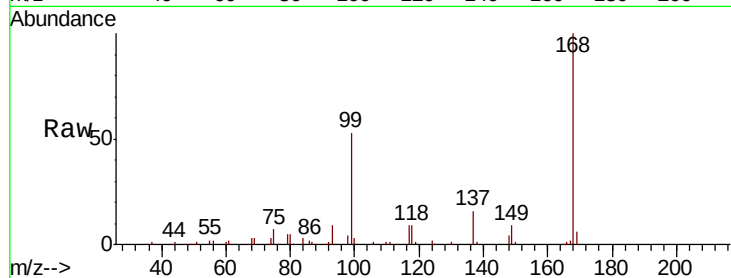
Tot Ion: 75 Resp: 19797

Ion Ratio Lower Upper

75 100

110 9.6 19.5 58.5#

77 0.0 24.7 37.1#



#38

Carbon Tetrachloride

Concen: 6.561 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.11 min

Lab File: VN061785.D

Acq: 12 Jun 2020 12:53

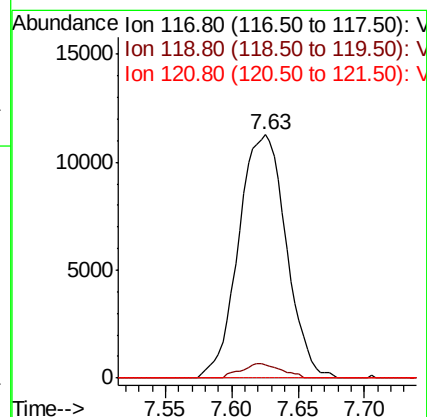
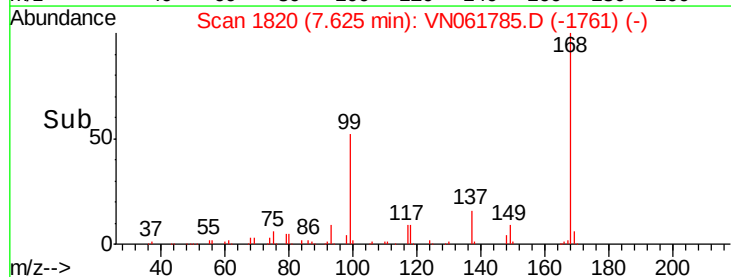
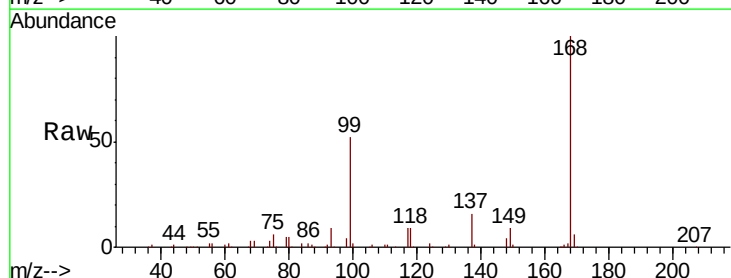
Tgt Ion: 117 Resp: 28146

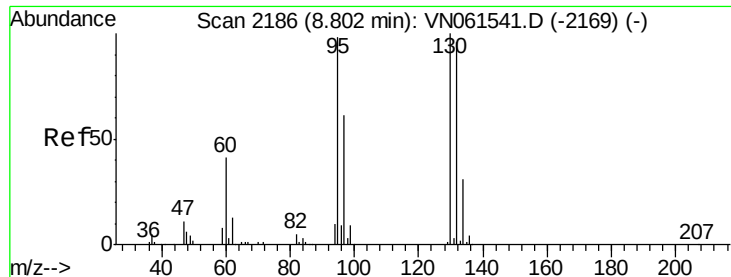
Ion Ratio Lower Upper

117 100

119 5.2 76.5 114.7#

121 0.0 24.1 36.1#





#44

Trichloroethene

Concen: 4.368 ug/l

RT: 8.80 min Scan# 2186

Delta R.T. 0.00 min

Lab File: VN061785.D

Acq: 12 Jun 2020 12:53

Instrument :

MSVOA_N

ClientSampleId :

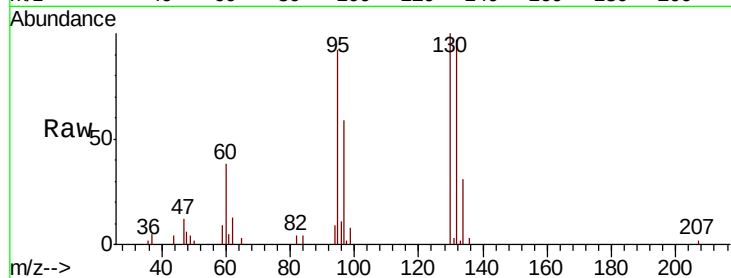
RE134D4-20200609DL

Tot Ion:130 Resp: 18420

Ion Ratio Lower Upper

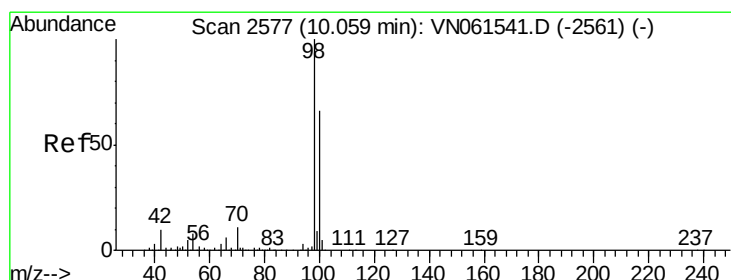
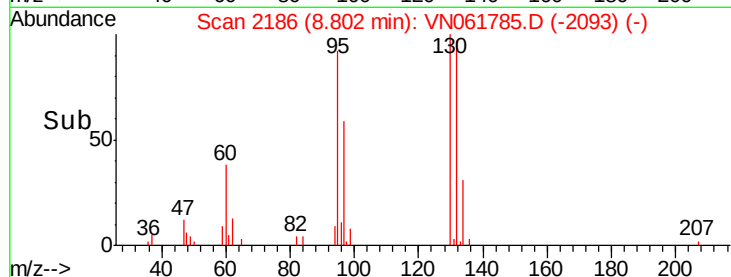
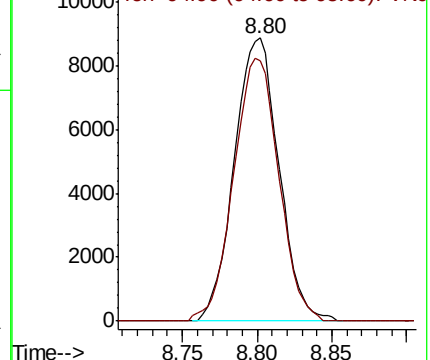
130 100

95 92.1 0.0 196.6



Abundance Ion 129.80 (129.50 to 130.50): VN061785.D (-2093) (-)

Ion 94.90 (94.60 to 95.60): VN061785.D (-2093) (-)



#50

Toluene-d8

Concen: 51.320 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.00 min

Lab File: VN061785.D

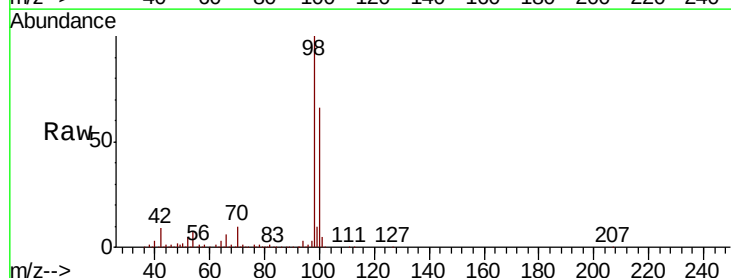
Acq: 12 Jun 2020 12:53

Tgt Ion: 98 Resp: 606133

Ion Ratio Lower Upper

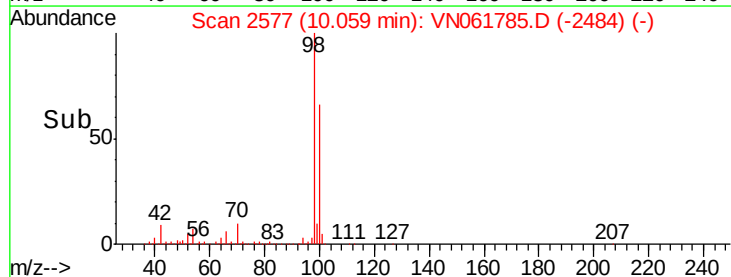
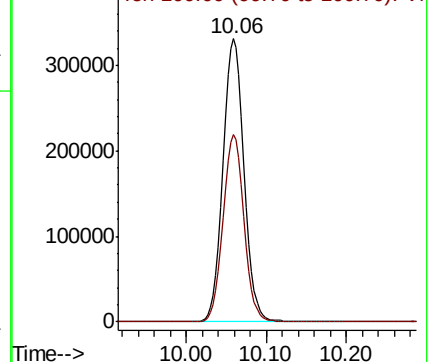
98 100

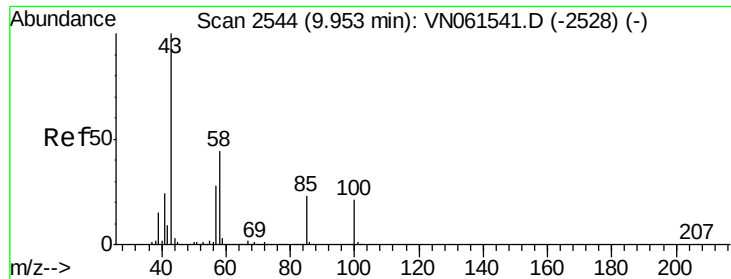
100 65.7 52.8 79.2



Abundance Ion 98.00 (97.70 to 98.70): VN061785.D (-2484) (-)

Ion 100.00 (99.70 to 100.70): VN061785.D (-2484) (-)

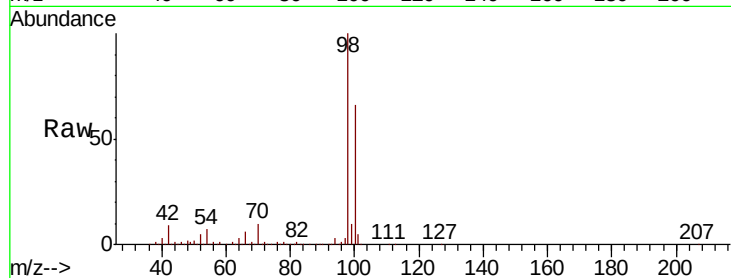




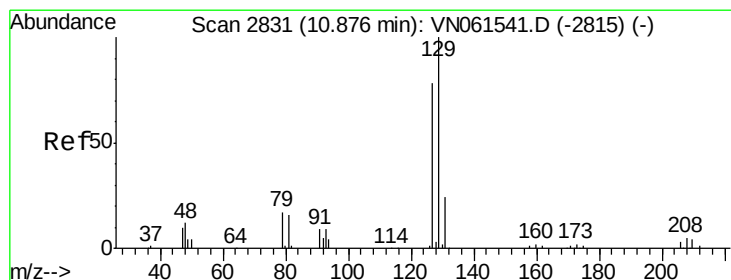
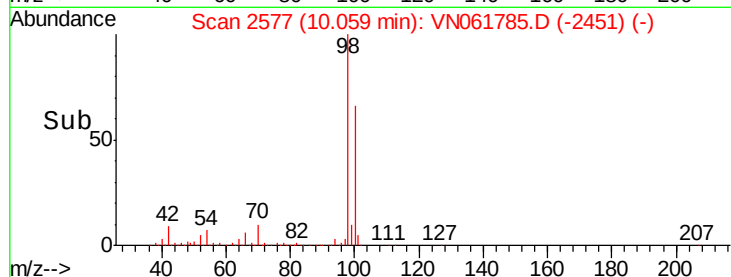
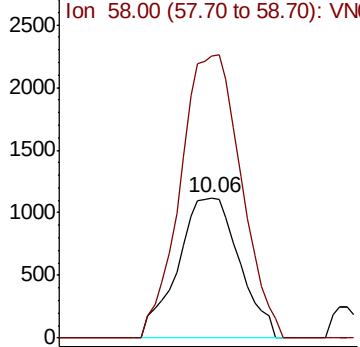
#51
4-Methyl-2-Pentanone
Concen: 0.592 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. 0.11 min
Lab File: VN061785.D
Acq: 12 Jun 2020 12:53

Instrument :
MSVOA_N
ClientSampleID :
RE134D4-20200609DL

Tot Ion: 43 Resp: 2149
Ion Ratio Lower Upper
43 100
58 200.3 35.0 52.6#

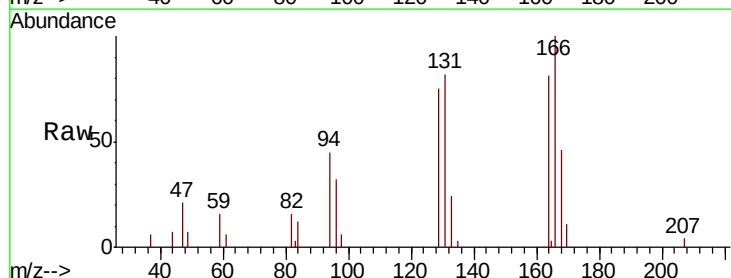


Abundance Ion 43.00 (42.70 to 43.70): VN061541.D (-2528) (-)
Ion 58.00 (57.70 to 58.70): VN061541.D (-2528) (-)

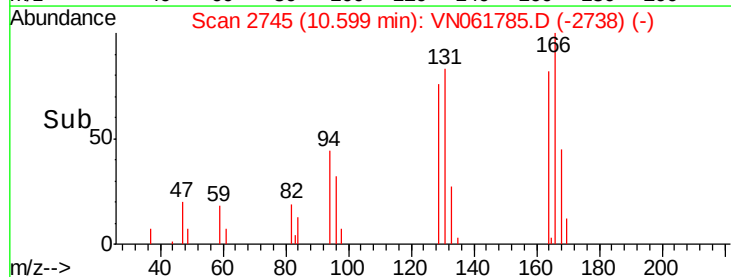
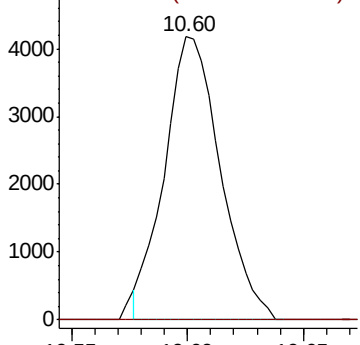


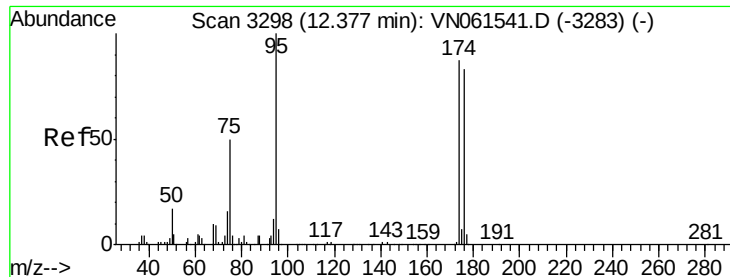
#60
Dibromochloromethane
Concen: 1.726 ug/l
RT: 10.60 min Scan# 2745
Delta R.T. -0.28 min
Lab File: VN061785.D
Acq: 12 Jun 2020 12:53

Tgt Ion: 129 Resp: 7004
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) (-)
Ion 126.80 (126.50 to 127.50): VN061541.D (-2815) (-)

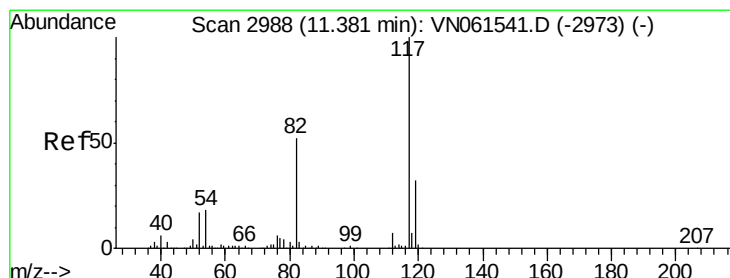
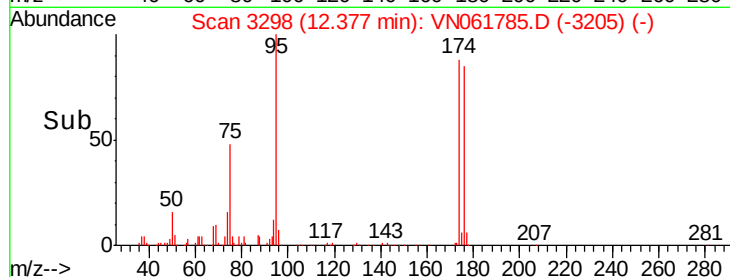
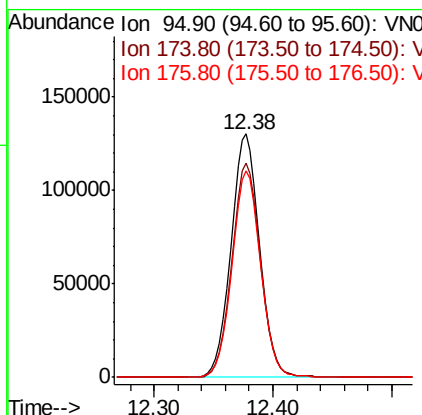
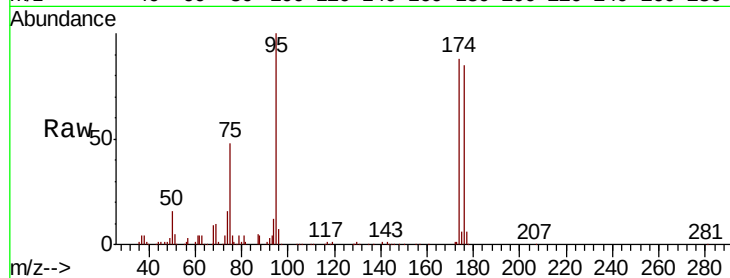




#62
4-Bromofluorobenzene
Concen: 50.275 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.00 min
Lab File: VN061785.D
Acq: 12 Jun 2020 12:53

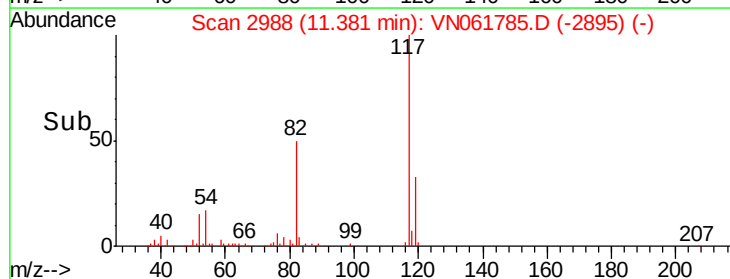
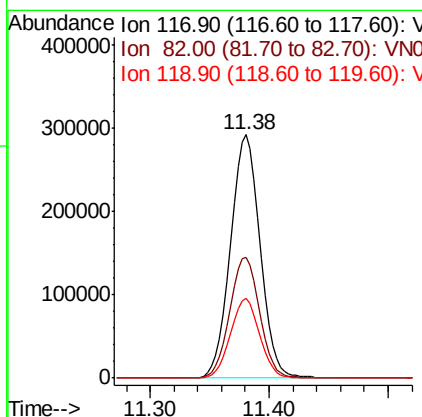
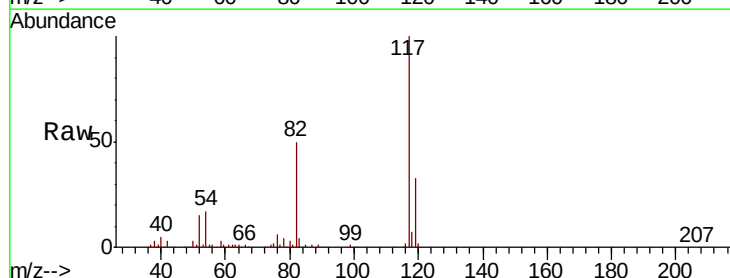
Instrument :
MSVOA_N
ClientSampleId :
RE134D4-20200609DL

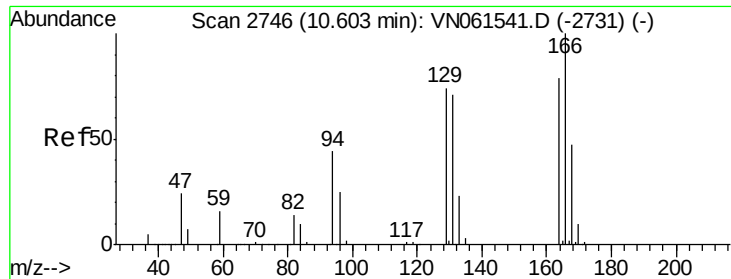
Tot Ion	Ratio	Lower	Upper
95	100		
174	88.0	0.0	172.8
176	84.9	0.0	164.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. 0.00 min
Lab File: VN061785.D
Acq: 12 Jun 2020 12:53

Tgt Ion	Ratio	Lower	Upper
117	100		
82	49.8	41.5	62.3
119	32.5	25.6	38.4





#64

Tetrachloroethene

Concen: 1.714 ug/l

RT: 10.60 min Scan# 2746

Delta R.T. 0.00 min

Lab File: VN061785.D

Acq: 12 Jun 2020 12:53

Instrument :

MSVOA_N

ClientSampleId :

RE134D4-20200609DL

Tot Ion:164 Resp: 8147

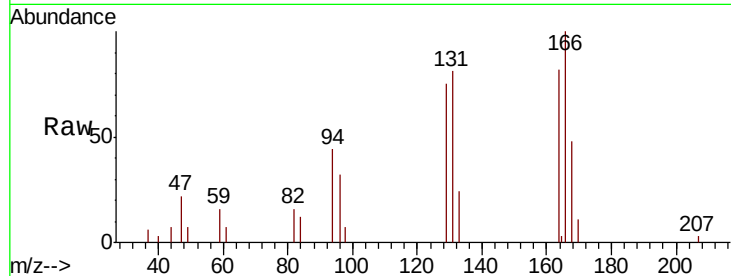
Ion Ratio Lower Upper

164 100

166 122.1 101.5 152.3

129 91.2 74.9 112.3

131 99.3 72.2 108.2

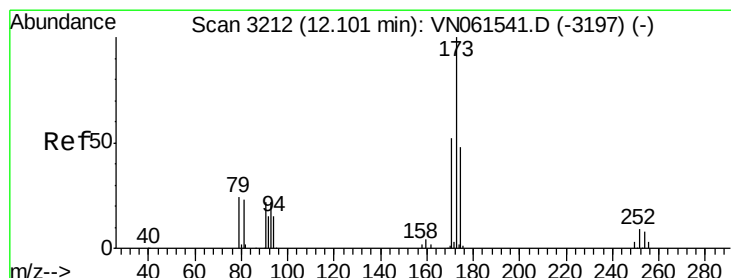
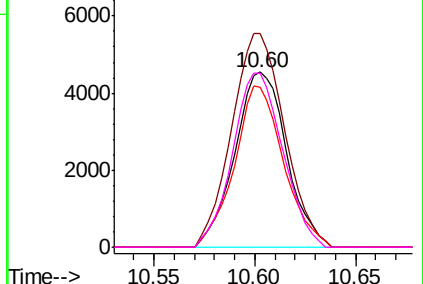
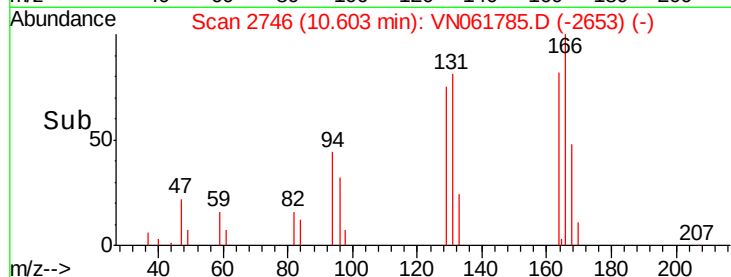


Abundance Ion 163.80 (163.50 to 164.50): V

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



#71

Bromoform

Concen: 0.636 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.28 min

Lab File: VN061785.D

Acq: 12 Jun 2020 12:53

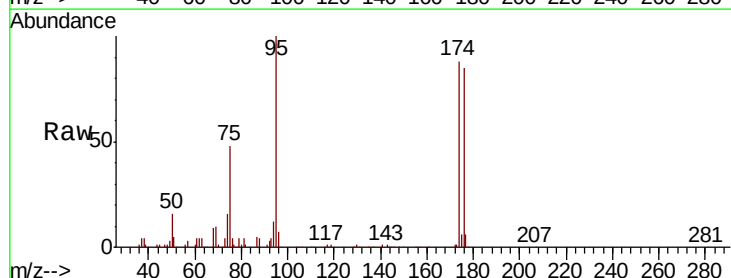
Tgt Ion:173 Resp: 1916

Ion Ratio Lower Upper

173 100

175 608.4 24.4 73.2#

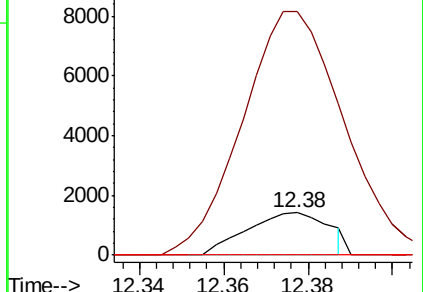
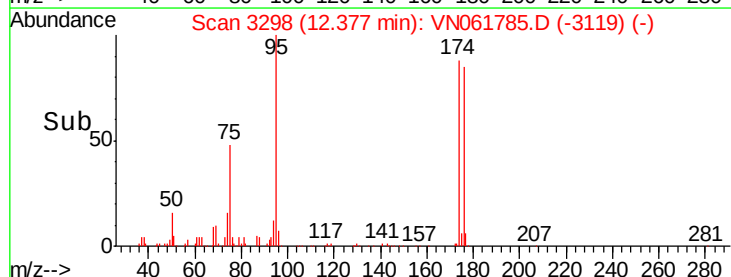
254 0.0 0.0 0.0

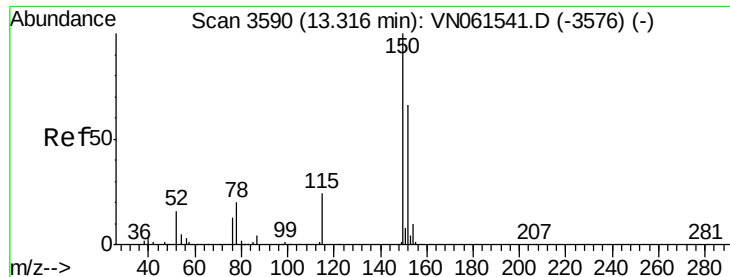


Abundance Ion 172.70 (172.40 to 173.40): V

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: VN061785.D

Acq: 12 Jun 2020 12:53

Instrument :

MSVOA_N

ClientSampleId :

RE134D4-20200609DL

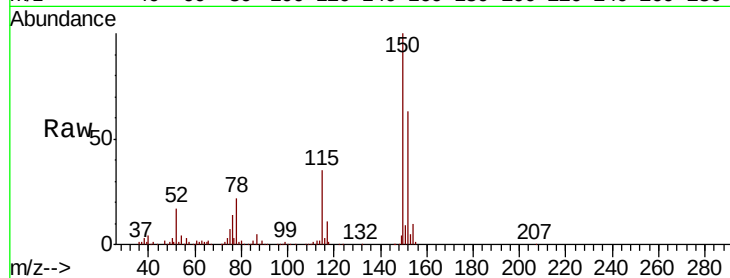
Tot Ion:152 Resp: 223184

Ion Ratio Lower Upper

152 100

115 56.0 28.0 84.0

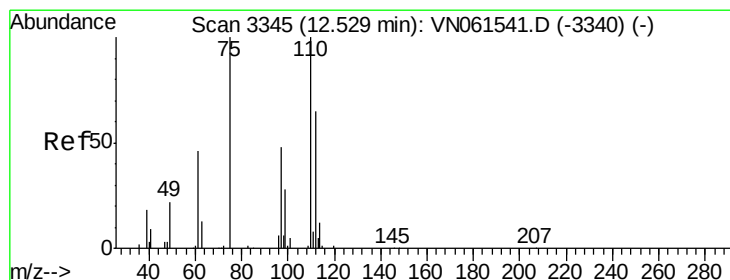
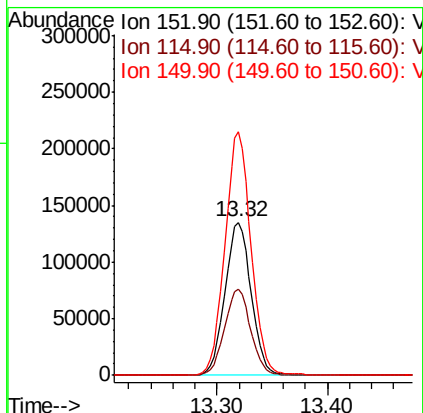
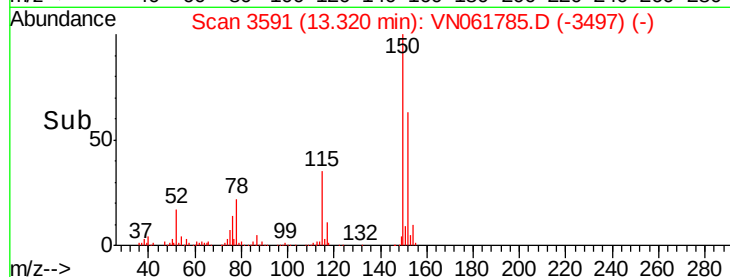
150 157.6 0.0 344.0



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: 25.666 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN061785.D

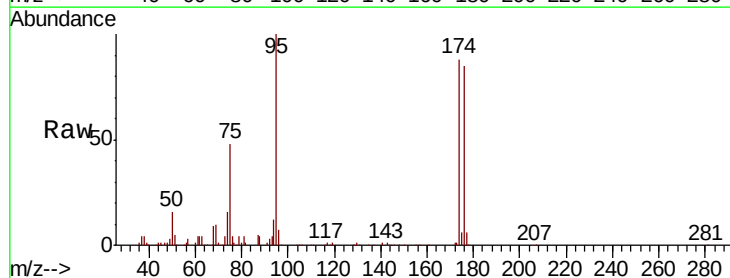
Acq: 12 Jun 2020 12:53

Tgt Ion: 75 Resp: 104160

Ion Ratio Lower Upper

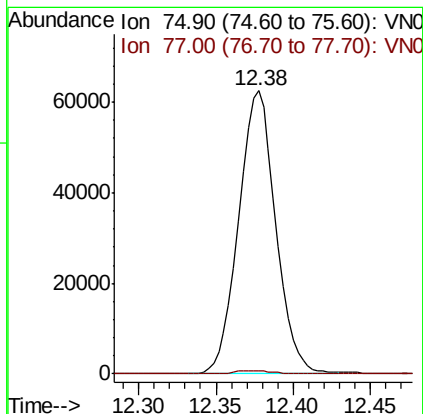
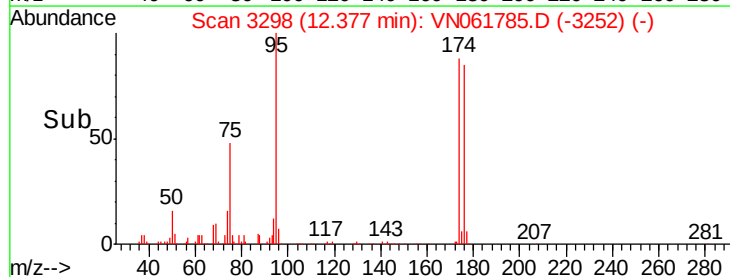
75 100

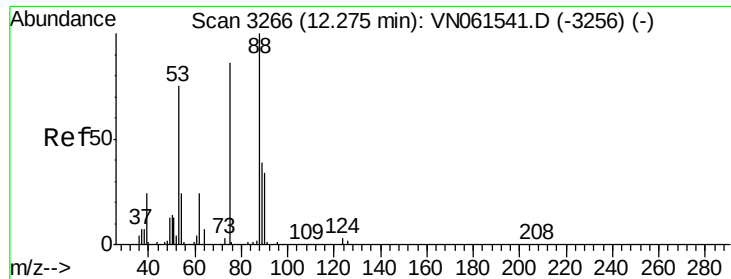
77 1.1 0.0 0.0#



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: 65.634 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN061785.D

Acq: 12 Jun 2020 12:53

Instrument :

MSVOA_N

ClientSampleId :

RE134D4-20200609DL

Tot Ion: 75 Resp: 104160

Ion Ratio Lower Upper

75 100

53 0.0 67.8 101.8#

89 0.0 37.1 55.7#

