

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN042020\
 Data File : VN061096.D
 Acq On : 20 Apr 2020 13:13
 Operator : JC/MD
 Sample : L2334-04DL 5X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ST008MW305-200415DL

Quant Time: Apr 21 03:58:27 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N041620W.M
 Quant Title : SW846 8260
 QLast Update : Fri Apr 17 03:49:39 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	152580	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.56	114	262671	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	250470	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	112419	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.00	65	105931	54.26	ug/l	0.00
Spiked Amount			Recovery	=	108.52%	
35) Dibromofluoromethane	7.56	113	78129	50.93	ug/l	0.00
Spiked Amount			Recovery	=	101.86%	
50) Toluene-d8	10.08	98	328188	56.62	ug/l	0.00
Spiked Amount			Recovery	=	113.24%	
62) 4-Bromofluorobenzene	12.40	95	124425	54.77	ug/l	0.00
Spiked Amount			Recovery	=	109.54%	

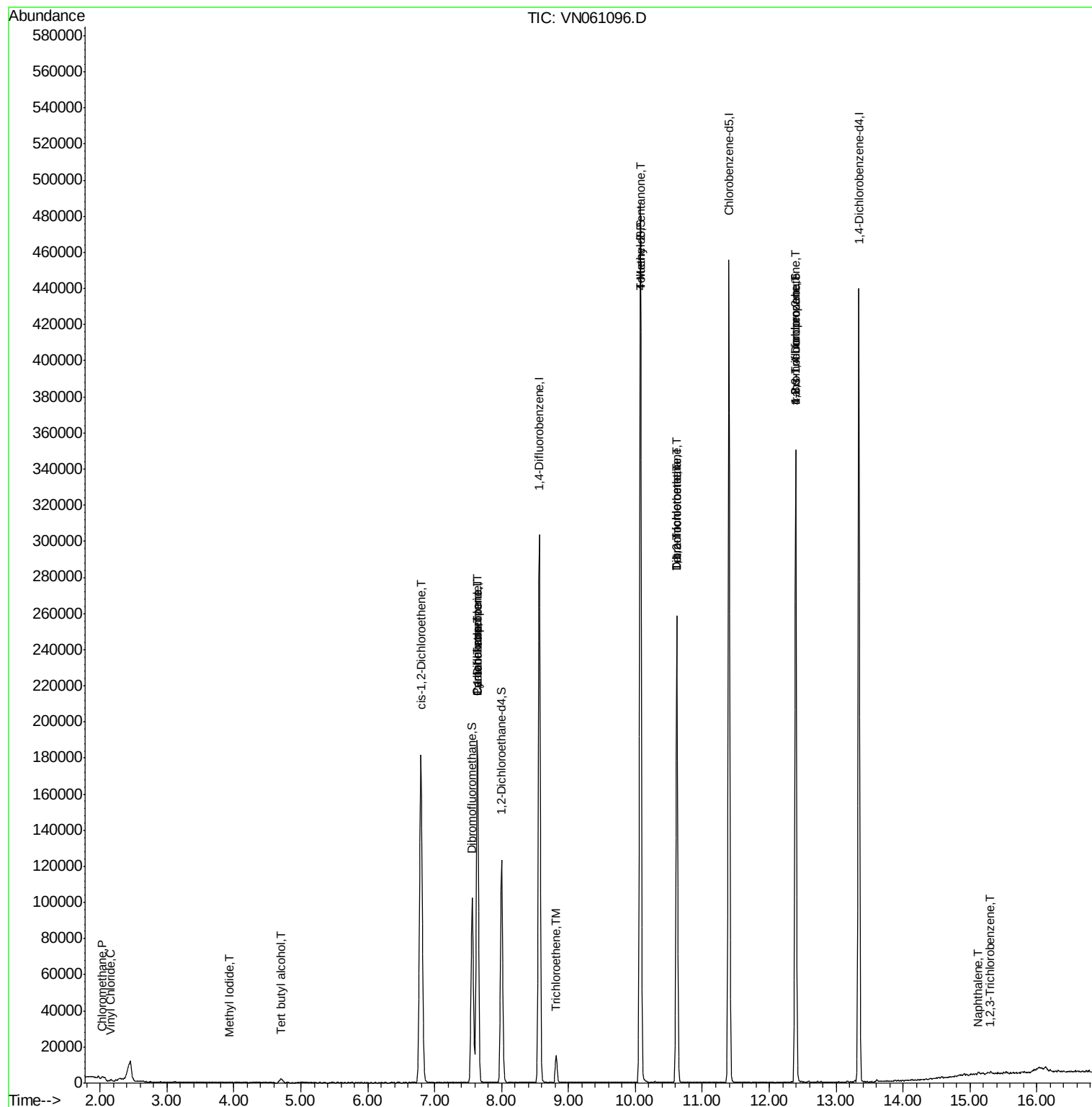
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	958	0.354	ug/l	99
4) Vinyl Chloride	2.16	62	675	0.300	ug/l	98
10) Methyl Iodide	3.93	142	356	0.246	ug/l #	42
11) Tert butyl alcohol	4.70	59	1479	4.270	ug/l #	73
27) cis-1,2-Dichloroethene	6.80	96	118173	57.637	ug/l	89
31) Cyclohexane	7.63	56	3447	0.948	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	12812	4.727	ug/l #	49
38) Carbon Tetrachloride	7.64	117	15277	6.771	ug/l #	16
44) Trichloroethene	8.82	130	5555	2.749	ug/l	94
51) 4-Methyl-2-Pentanone	10.08	43	1602	0.581	ug/l #	1
55) 1,1,2-Trichloroethane	10.62	97	444	0.243	ug/l #	1
60) Dibromochloromethane	10.62	129	54409	29.013	ug/l #	10
64) Tetrachloroethene	10.62	164	58851	30.705	ug/l	99
76) 1,2,3-Trichloropropane	12.40	75	63887	25.836	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	63887	63.727	ug/l #	12
95) Naphthalene	15.13	128	1256	0.203	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.31	180	432	0.212	ug/l #	77

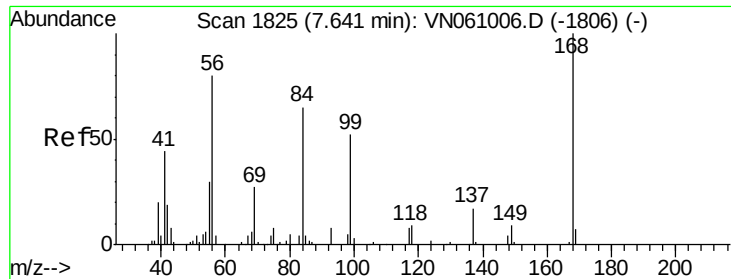
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1824

Delta R.T. -0.00 min

Lab File: VN061096.D

Acq: 20 Apr 2020 13:13

Instrument :

MSVOA_N

ClientSampleId :

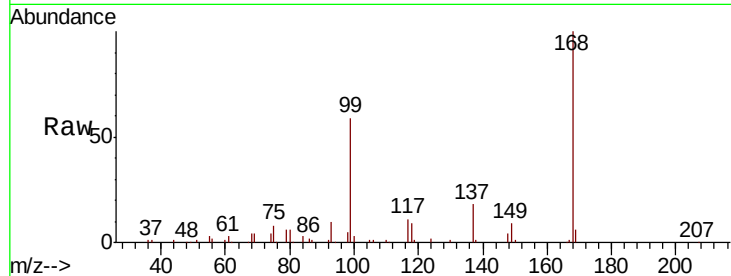
ST008MW305-200415DL

Tot Ion:168 Resp: 152580

Ion Ratio Lower Upper

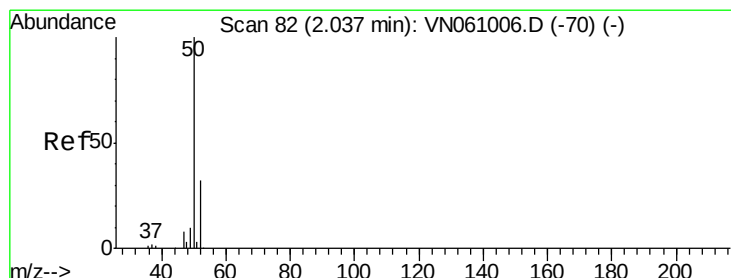
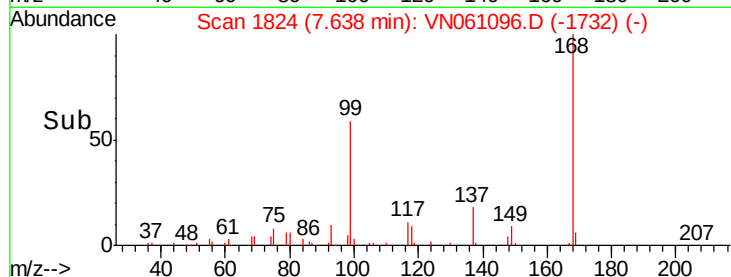
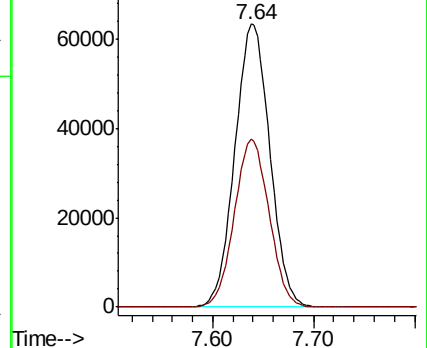
168 100

99 59.3 47.4 71.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#3

Chloromethane

Concen: 0.354 ug/l

RT: 2.04 min Scan# 82

Delta R.T. -0.00 min

Lab File: VN061096.D

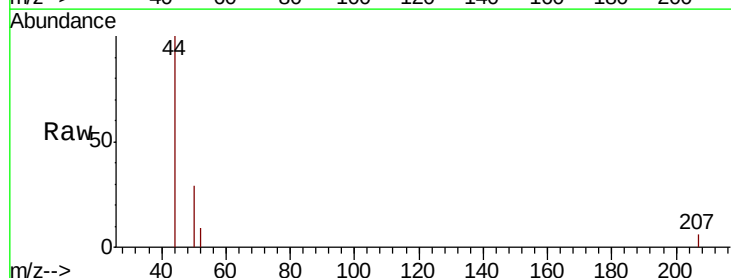
Acq: 20 Apr 2020 13:13

Tgt Ion: 50 Resp: 958

Ion Ratio Lower Upper

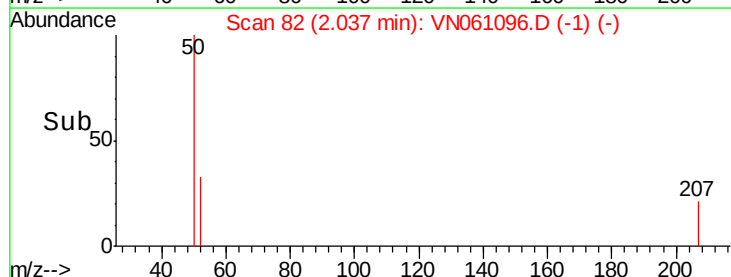
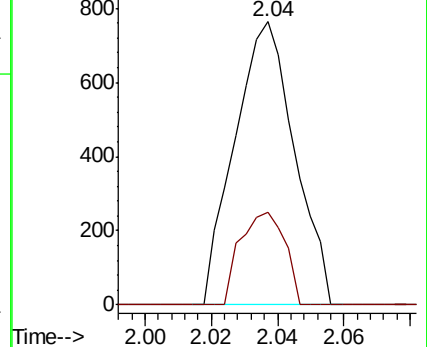
50 100

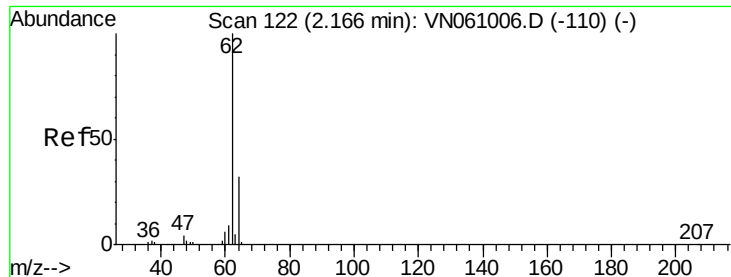
52 32.6 25.6 38.4



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN





#4

Vinyl Chloride

Concen: 0.300 ug/l

RT: 2.16 min Scan# 120

Delta R.T. -0.01 min

Lab File: VN061096.D

Acq: 20 Apr 2020 13:13

Instrument :

MSVOA_N

ClientSampleId :

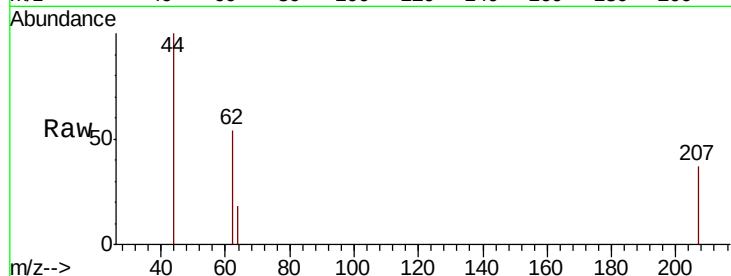
ST008MW305-200415DL

Tot Ion: 62 Resp: 675

Ion Ratio Lower Upper

62 100

64 33.1 25.4 38.0



Abundance Ion 61.90 (61.60 to 62.60): VN061006.D (-110) (-)

Ion 63.90 (63.60 to 64.60): VN061006.D (-110) (-)

2.16

500

400

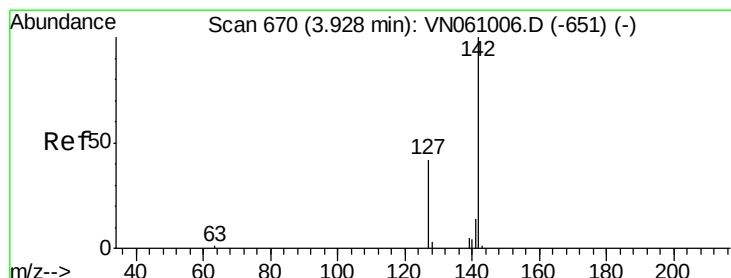
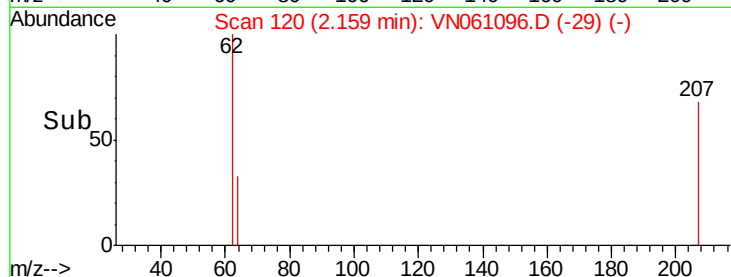
300

200

100

0

Time--> 2.12 2.14 2.16 2.18



#10

Methyl Iodide

Concen: 0.246 ug/l

RT: 3.93 min Scan# 670

Delta R.T. -0.00 min

Lab File: VN061096.D

Acq: 20 Apr 2020 13:13

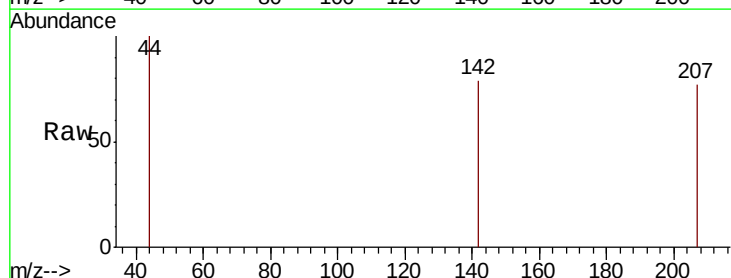
Tgt Ion: 142 Resp: 356

Ion Ratio Lower Upper

142 100

127 0.0 33.4 50.2#

141 0.0 11.0 16.6#



Abundance Ion 141.80 (141.50 to 142.50): VN061006.D (-651) (-)

Ion 126.80 (126.50 to 127.50): VN061006.D (-651) (-)

Ion 140.80 (140.50 to 141.50): VN061006.D (-651) (-)

300

250

200

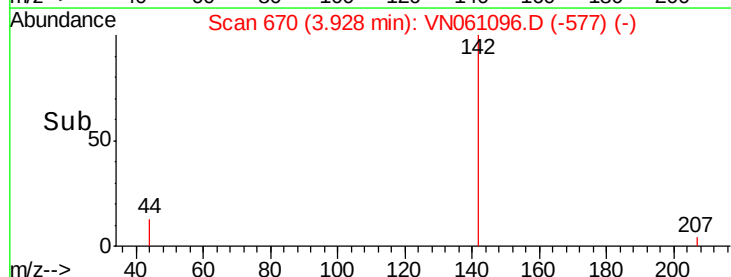
150

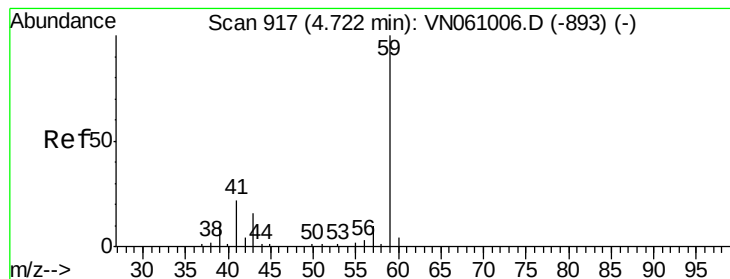
100

50

0

Time--> 3.90 3.92 3.94 3.96



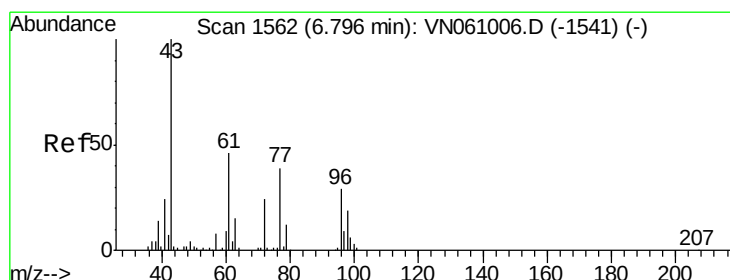
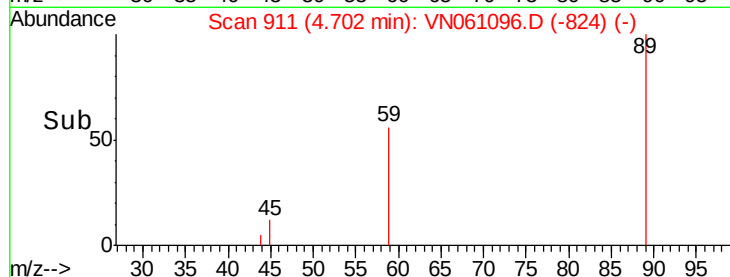
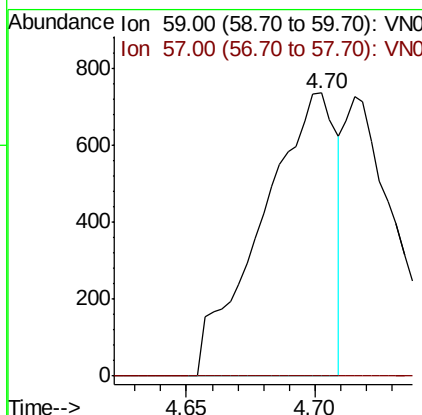
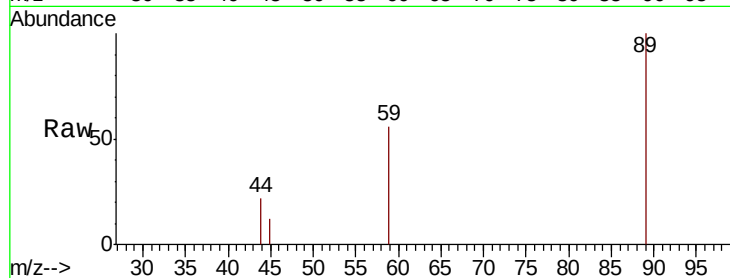


#11

Tert butyl alcohol
 Concen: 4.270 ug/l
 RT: 4.70 min Scan# 911
 Delta R.T. -0.02 min
 Lab File: VN061096.D
 Acq: 20 Apr 2020 13:13

Instrument :
 MSVOA_N
 ClientSampleId :
 ST008MW305-200415DL

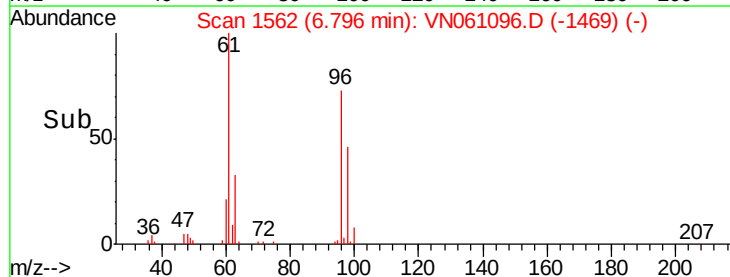
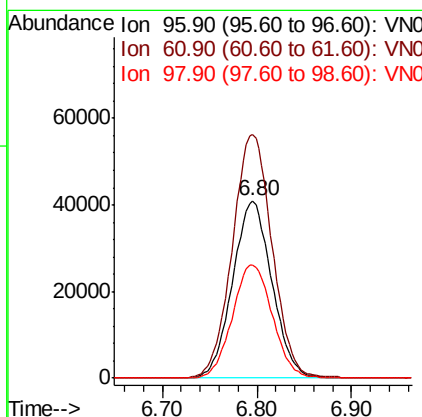
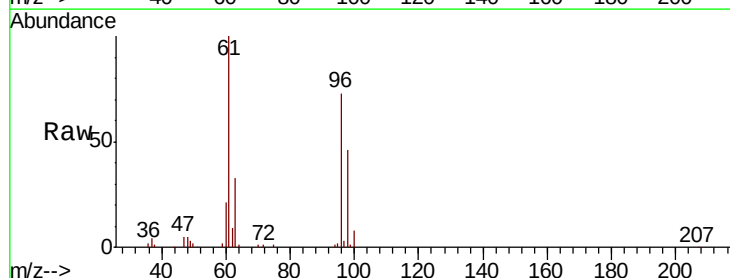
Tot Ion: 59 Resp: 1479
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.1 12.1#

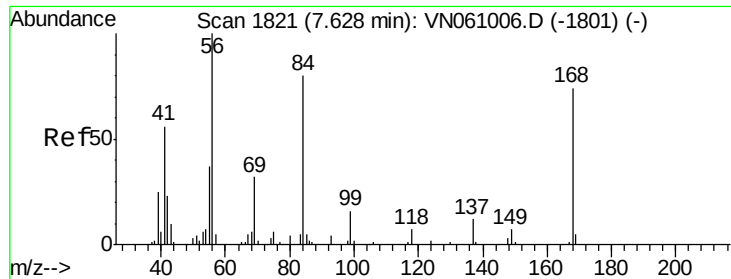


#27

cis-1,2-Dichloroethene
 Concen: 57.637 ug/l
 RT: 6.80 min Scan# 1562
 Delta R.T. -0.00 min
 Lab File: VN061096.D
 Acq: 20 Apr 2020 13:13

Tgt Ion: 96 Resp: 118173
 Ion Ratio Lower Upper
 96 100
 61 139.5 0.0 317.4
 98 65.1 0.0 127.8

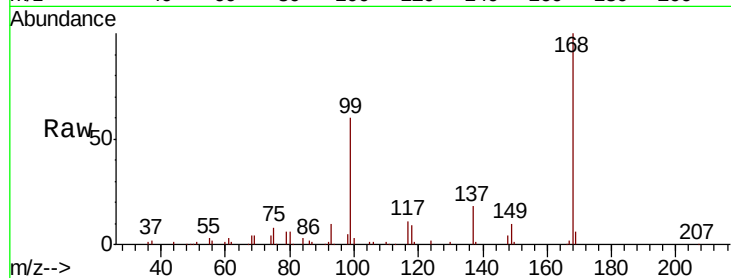




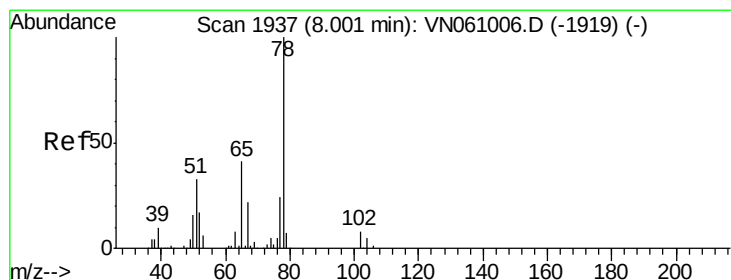
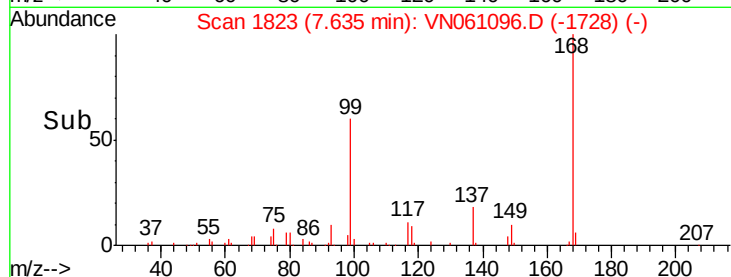
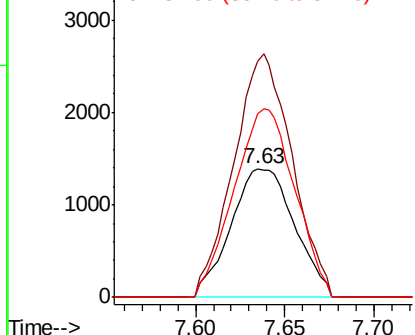
#31
Cyclohexane
Concen: 0.948 ug/l
RT: 7.63 min Scan# 1823
Delta R.T. 0.01 min
Lab File: VN061096.D
Acq: 20 Apr 2020 13:13

Instrument :
MSVOA_N
ClientSampleId :
ST008MW305-200415DL

Tot Ion: 56 Resp: 3447
Ion Ratio Lower Upper
56 100
69 183.0 25.6 38.4#
84 142.4 63.4 95.2#

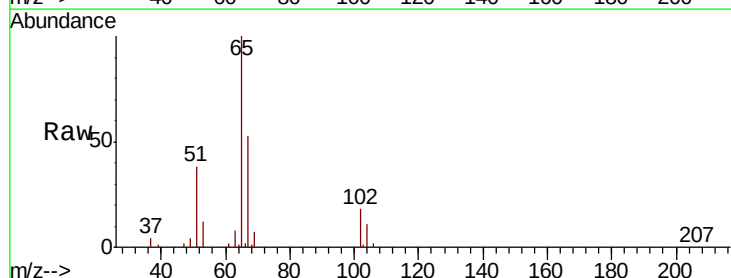


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

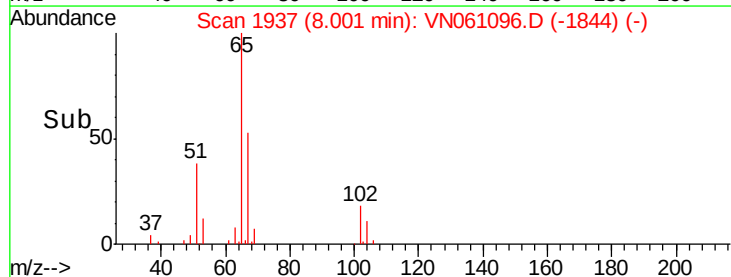
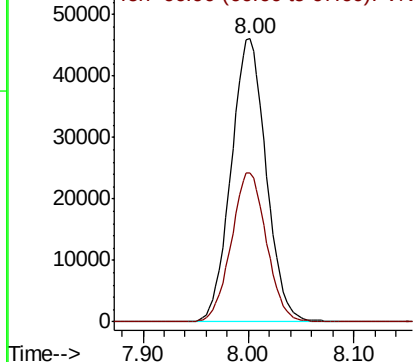


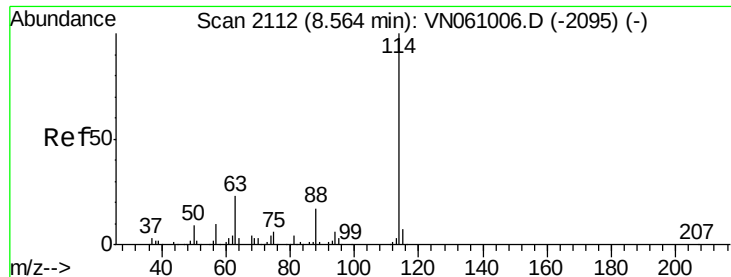
#33
1,2-Dichloroethane-d4
Concen: 54.264 ug/l
RT: 8.00 min Scan# 1937
Delta R.T. -0.00 min
Lab File: VN061096.D
Acq: 20 Apr 2020 13:13

Tgt Ion: 65 Resp: 105931
Ion Ratio Lower Upper
65 100
67 52.8 0.0 107.0



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: 8.56 min Scan# 2112

Delta R.T. -0.00 min

Lab File: VN061096.D

Acq: 20 Apr 2020 13:13

Instrument :

MSVOA_N

ClientSampleId :

ST008MW305-200415DL

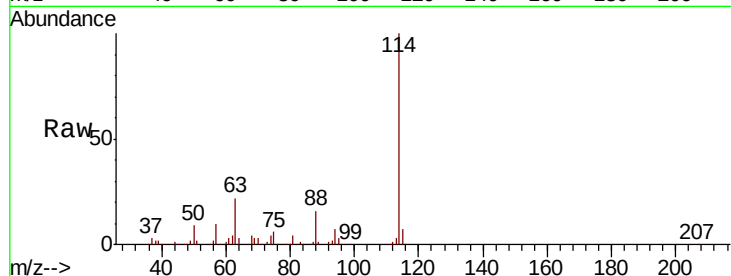
Tot Ion:114 Resp: 262671

Ion Ratio Lower Upper

114 100

63 22.2 0.0 46.2

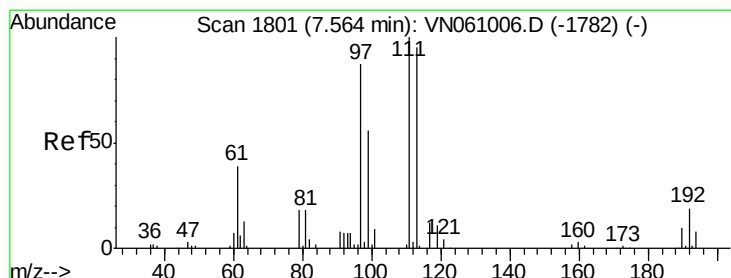
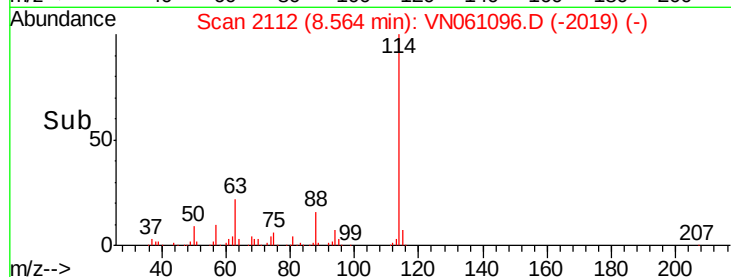
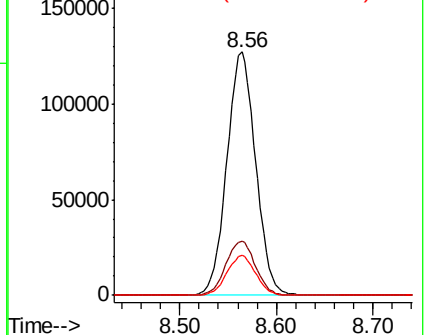
88 16.4 0.0 33.4



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: 50.933 ug/l

RT: 7.56 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VN061096.D

Acq: 20 Apr 2020 13:13

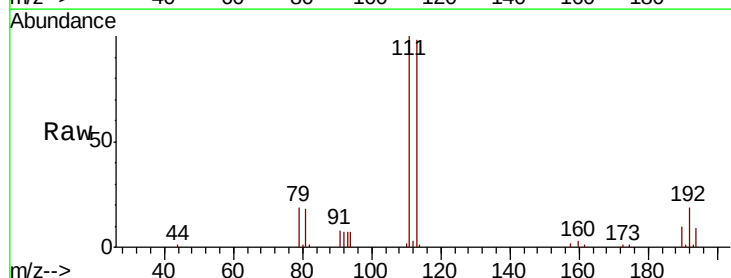
Tgt Ion:113 Resp: 78129

Ion Ratio Lower Upper

113 100

111 103.5 83.4 125.2

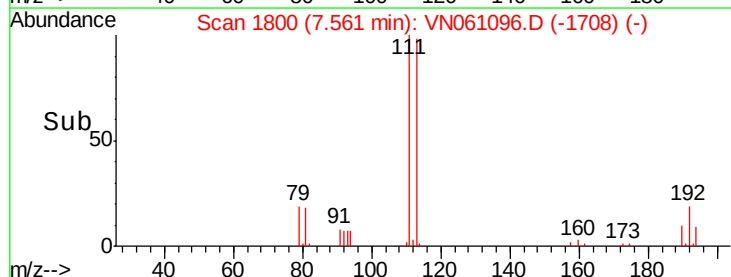
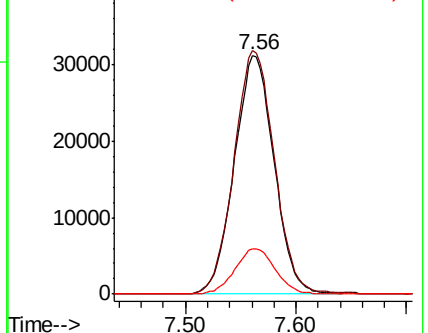
192 19.3 15.5 23.3

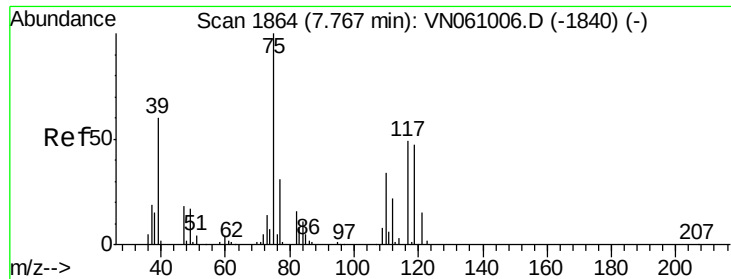


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

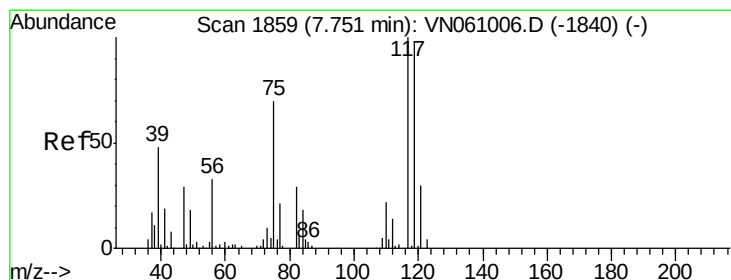
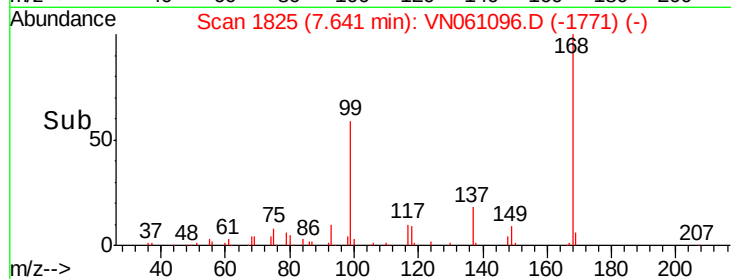
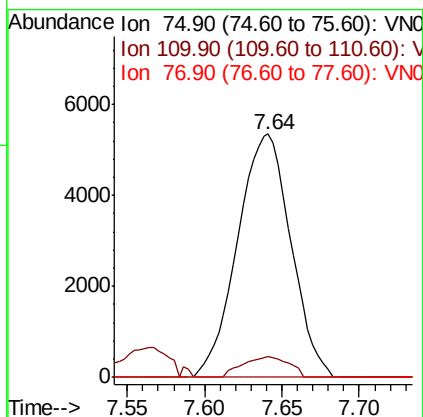
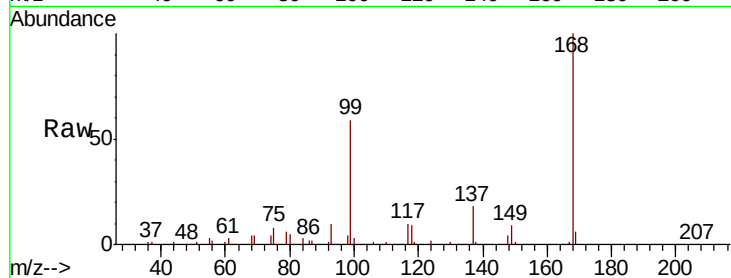




#36
 1,1-Dichloropropene
 Concen: 4.727 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN061096.D
 Acq: 20 Apr 2020 13:13

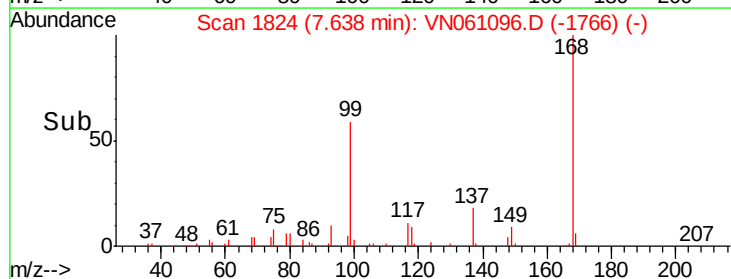
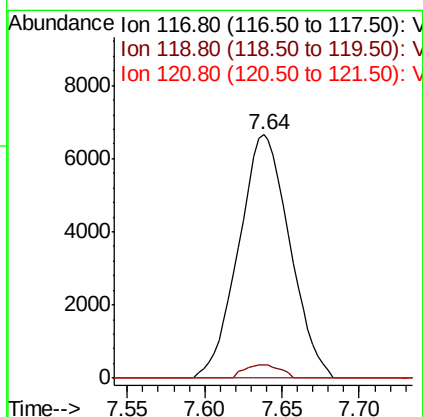
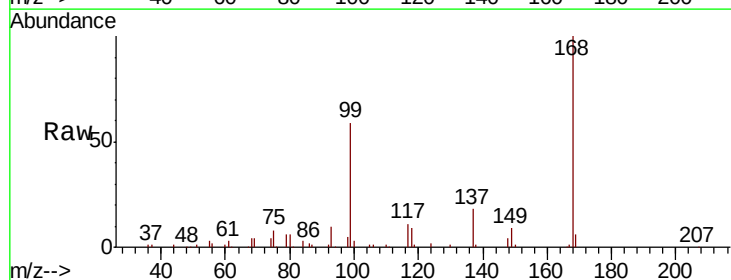
Instrument :
 MSVOA_N
 ClientSampleId :
 ST008MW305-200415DL

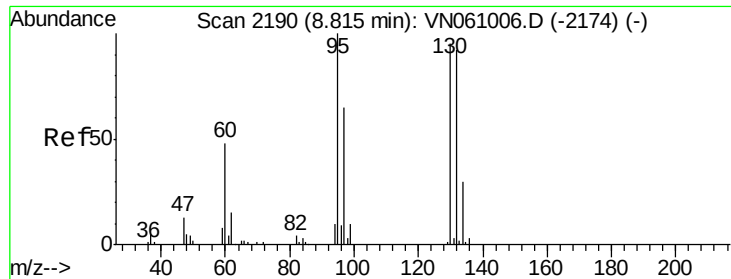
Tot Ion	Ratio	Lower	Upper
75	100		
110	7.3	16.8	50.3#
77	0.0	24.7	37.1#



#38
 Carbon Tetrachloride
 Concen: 6.771 ug/l
 RT: 7.64 min Scan# 1824
 Delta R.T. -0.11 min
 Lab File: VN061096.D
 Acq: 20 Apr 2020 13:13

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.7	78.1	117.1#
121	0.0	24.0	36.0#





#44

Trichloroethene

Concen: 2.749 ug/l

RT: 8.82 min Scan# 2191

Delta R.T. 0.00 min

Lab File: VN061096.D

Acq: 20 Apr 2020 13:13

Instrument :

MSVOA_N

ClientSampleId :

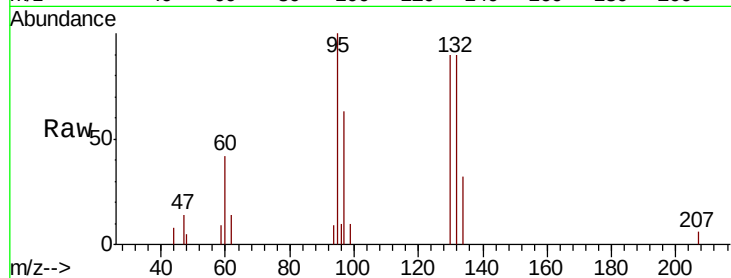
ST008MW305-200415DL

Tot Ion:130 Resp: 5555

Ion Ratio Lower Upper

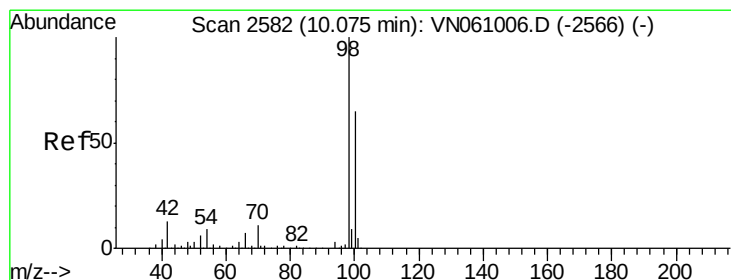
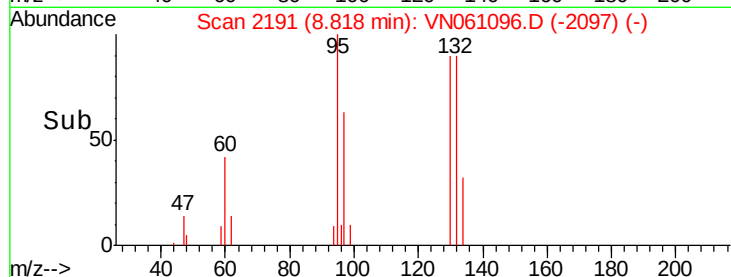
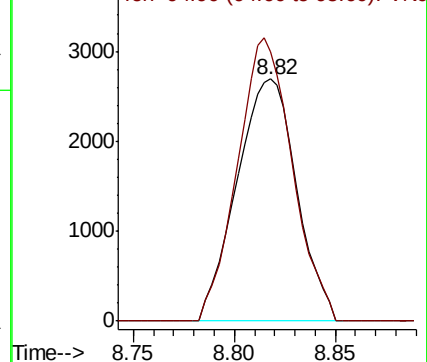
130 100

95 111.1 0.0 210.0



Abundance Ion 129.80 (129.50 to 130.50): VN061006.D (-2174) (-)

Ion 94.90 (94.60 to 95.60): VN061006.D (-2174) (-)



#50

Toluene-d8

Concen: 56.618 ug/l

RT: 10.08 min Scan# 2582

Delta R.T. -0.00 min

Lab File: VN061096.D

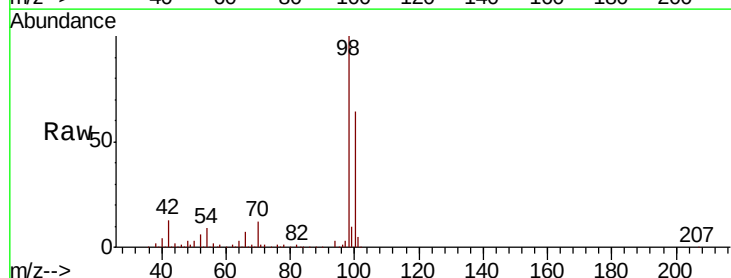
Acq: 20 Apr 2020 13:13

Tgt Ion: 98 Resp: 328188

Ion Ratio Lower Upper

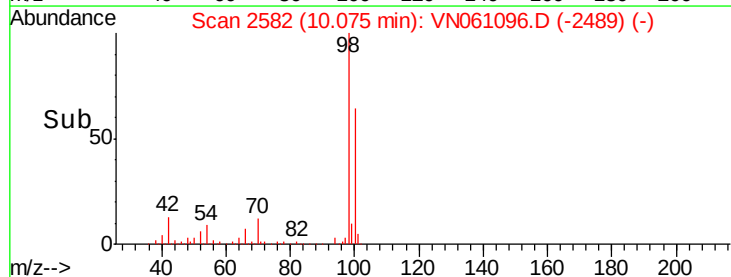
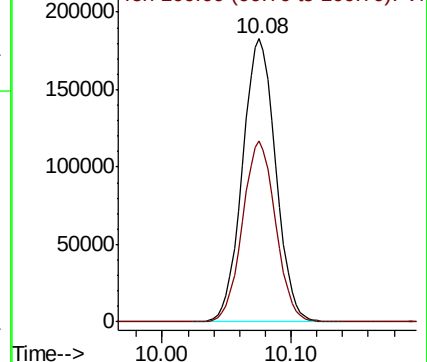
98 100

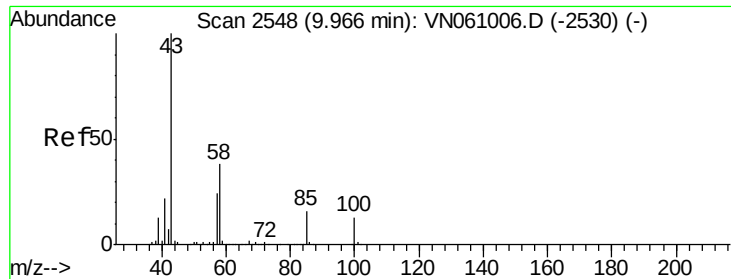
100 63.6 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN061006.D (-2566) (-)

Ion 100.00 (99.70 to 100.70): VN061006.D (-2566) (-)





#51

4-Methyl-2-Pentanone

Concen: 0.581 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. 0.11 min

Lab File: VN061096.D

Acq: 20 Apr 2020 13:13

Instrument :

MSVOA_N

ClientSampleId :

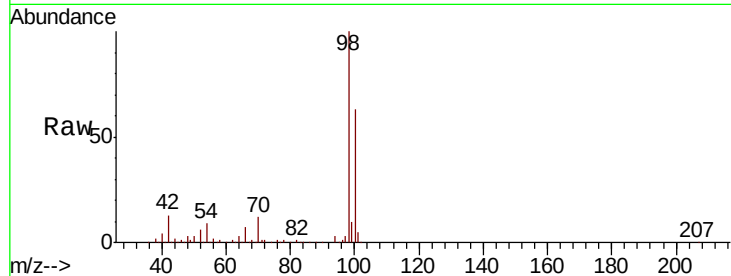
ST008MW305-200415DL

Tot Ion: 43 Resp: 1602

Ion Ratio Lower Upper

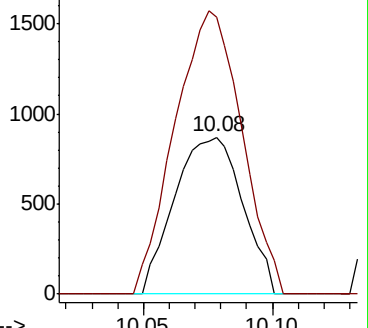
43 100

58 177.6 30.3 45.5#

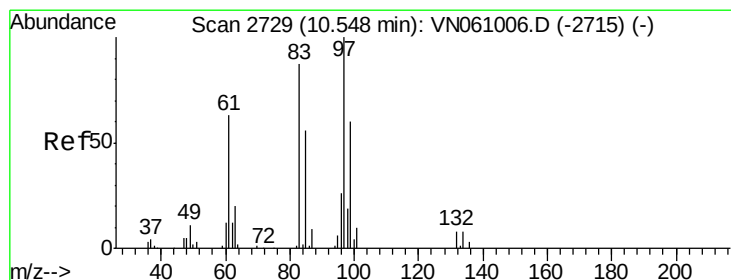
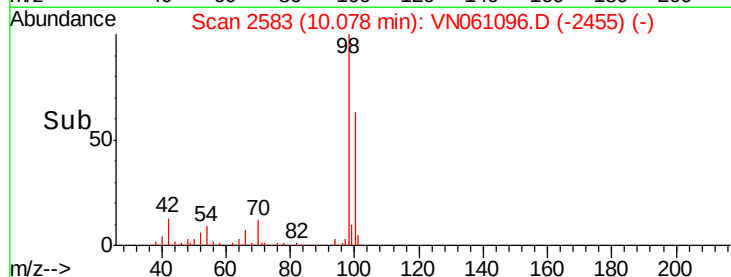


Abundance Ion 43.00 (42.70 to 43.70): VN061006.D (-2530) (-)

Ion 58.00 (57.70 to 58.70): VN061006.D (-2530) (-)



Time-->



#55

1,1,2-Trichloroethane

Concen: 0.243 ug/l

RT: 10.62 min Scan# 2751

Delta R.T. 0.07 min

Lab File: VN061096.D

Acq: 20 Apr 2020 13:13

Tgt Ion: 97 Resp: 444

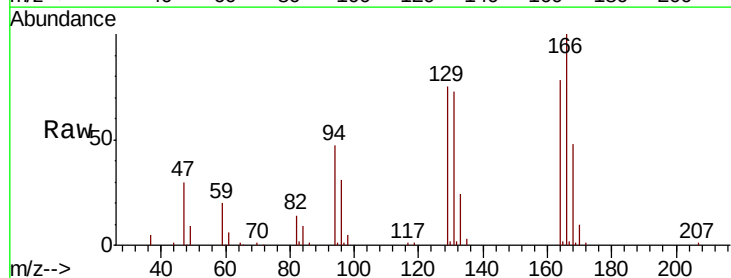
Ion Ratio Lower Upper

97 100

83 254.0 69.5 104.3#

85 0.0 45.0 67.4#

99 0.0 47.9 71.9#

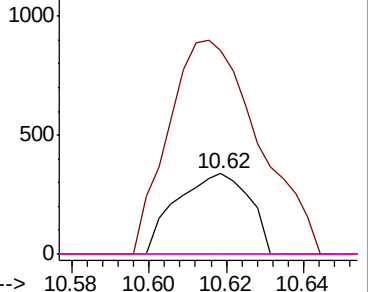


Abundance Ion 96.90 (96.60 to 97.60): VN061006.D (-2715) (-)

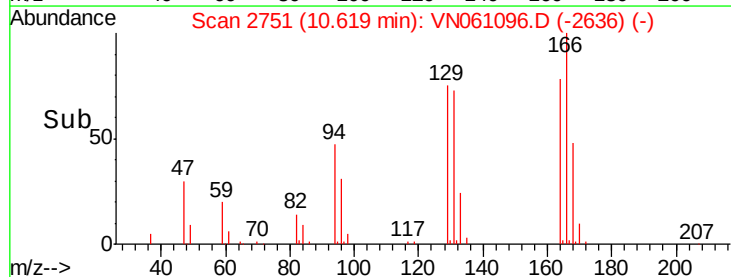
Ion 82.90 (82.60 to 83.60): VN061006.D (-2715) (-)

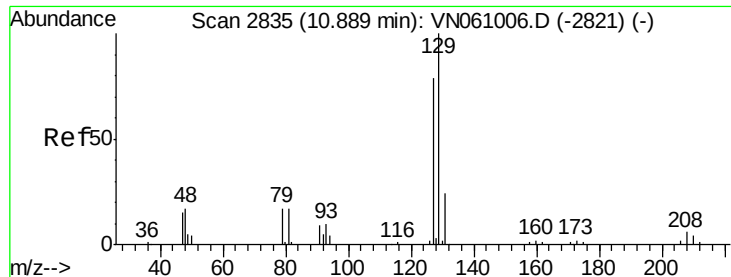
Ion 84.90 (84.60 to 85.60): VN061006.D (-2715) (-)

Ion 98.90 (98.60 to 99.60): VN061006.D (-2715) (-)



Time-->

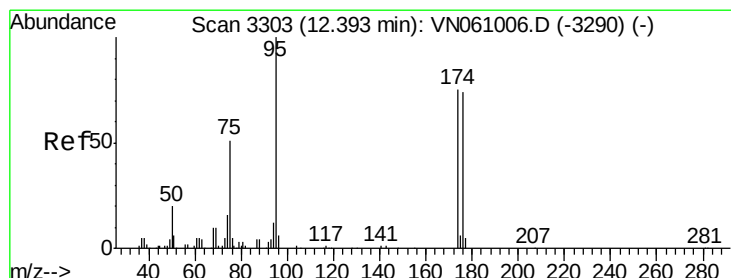
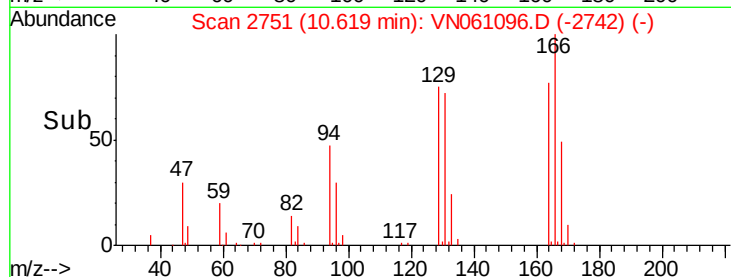
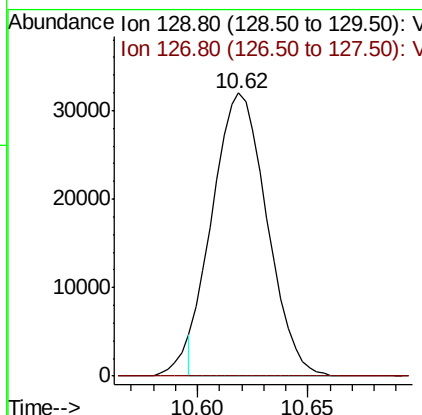
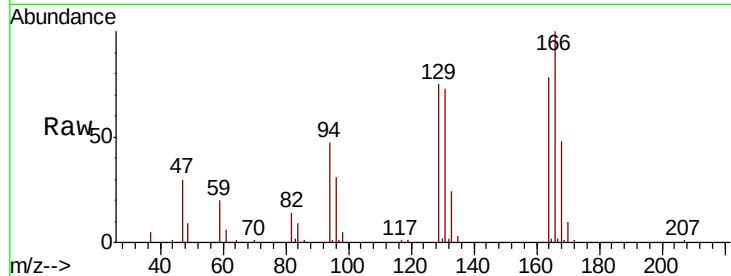




#60
 Dibromochloromethane
 Concen: 29.013 ug/l
 RT: 10.62 min Scan# 2751
 Delta R.T. -0.27 min
 Lab File: VN061096.D
 Acq: 20 Apr 2020 13:13

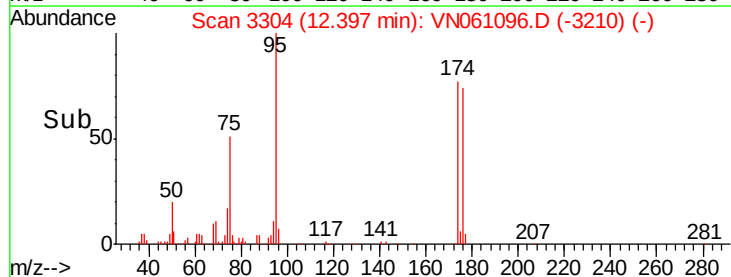
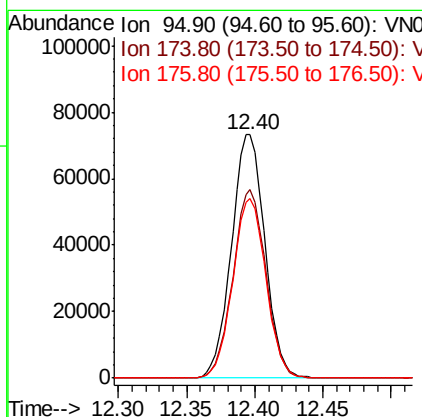
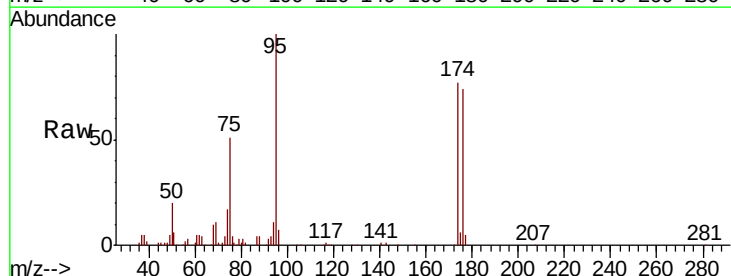
Instrument :
 MSVOA_N
 ClientSampleId :
 ST008MW305-200415DL

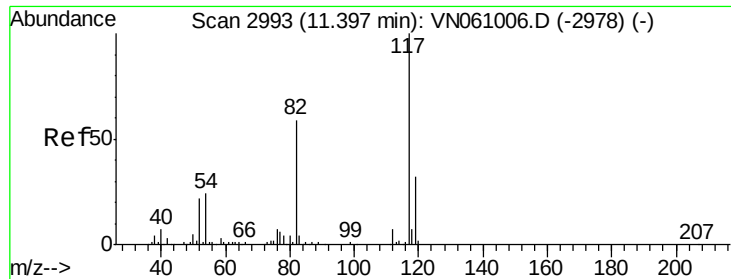
Tot Ion:129 Resp: 54409
 Ion Ratio Lower Upper
 129 100
 127 0.0 39.0 116.9#



#62
 4-Bromofluorobenzene
 Concen: 54.768 ug/l
 RT: 12.40 min Scan# 3304
 Delta R.T. 0.00 min
 Lab File: VN061096.D
 Acq: 20 Apr 2020 13:13

Tgt Ion: 95 Resp: 124425
 Ion Ratio Lower Upper
 95 100
 174 76.2 0.0 151.2
 176 73.5 0.0 148.2

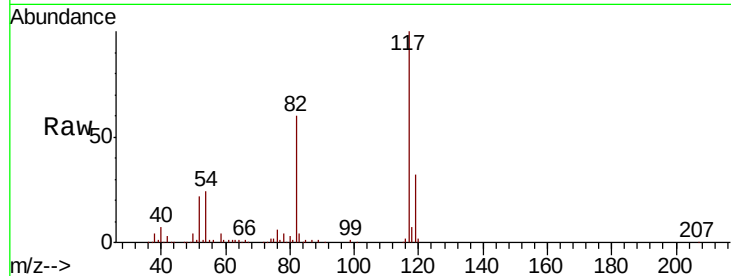




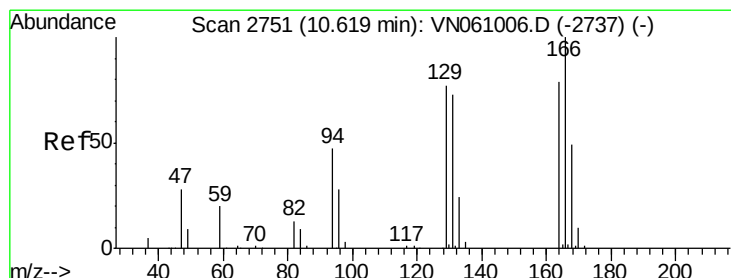
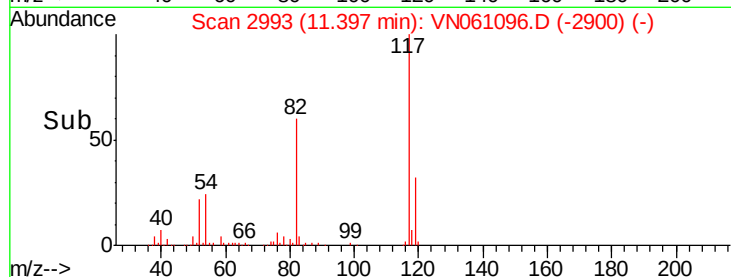
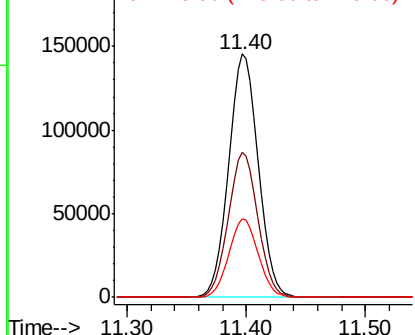
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2993
Delta R.T. -0.00 min
Lab File: VN061096.D
Acq: 20 Apr 2020 13:13

Instrument :
MSVOA_N
ClientSampleId :
ST008MW305-200415DL

Tot Ion:117 Resp: 250470
Ion Ratio Lower Upper
117 100
82 59.6 47.1 70.7
119 32.5 25.7 38.5

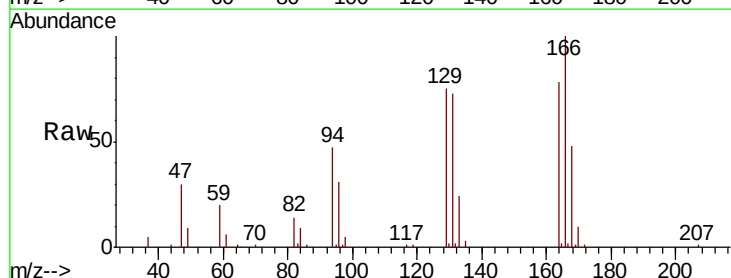


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

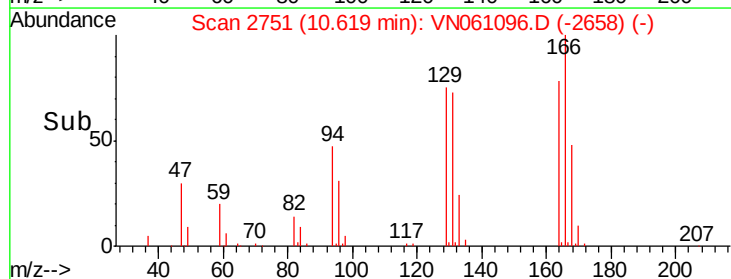
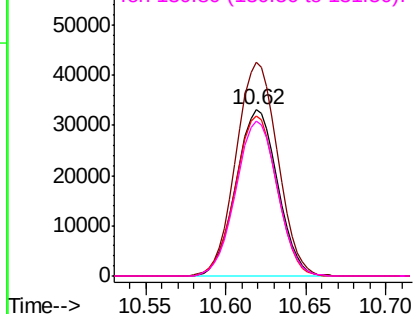


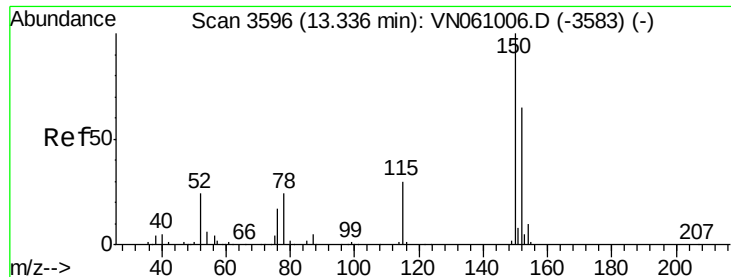
#64
Tetrachloroethene
Concen: 30.705 ug/l
RT: 10.62 min Scan# 2751
Delta R.T. -0.00 min
Lab File: VN061096.D
Acq: 20 Apr 2020 13:13

Tgt Ion:164 Resp: 58851
Ion Ratio Lower Upper
164 100
166 128.7 101.6 152.4
129 96.8 78.5 117.7
131 93.7 74.3 111.5



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





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN061096.D

Acq: 20 Apr 2020 13:13

Instrument :

MSVOA_N

ClientSampleId :

ST008MW305-200415DL

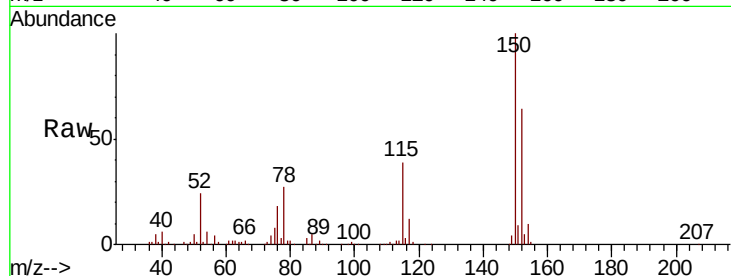
Tot Ion:152 Resp: 112419

Ion Ratio Lower Upper

152 100

115 60.5 30.8 92.4

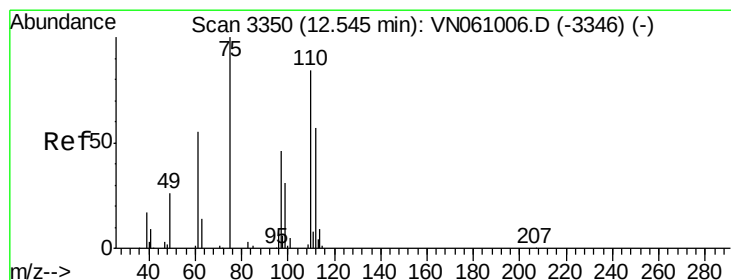
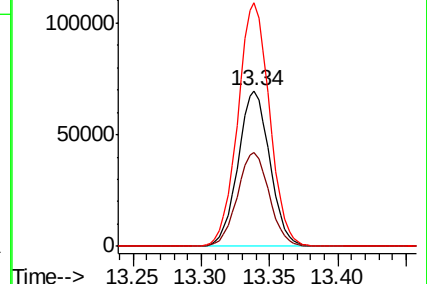
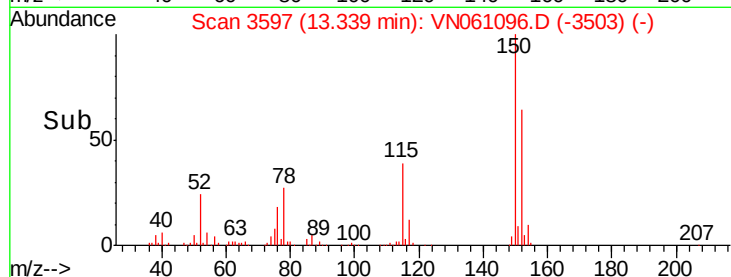
150 156.8 0.0 349.0



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: 25.836 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN061096.D

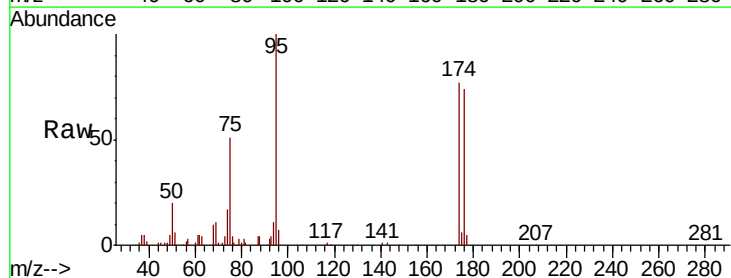
Acq: 20 Apr 2020 13:13

Tgt Ion: 75 Resp: 63887

Ion Ratio Lower Upper

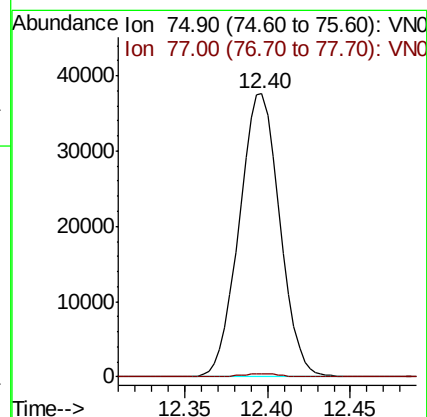
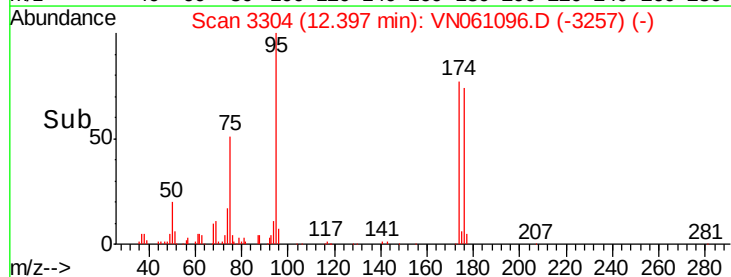
75 100

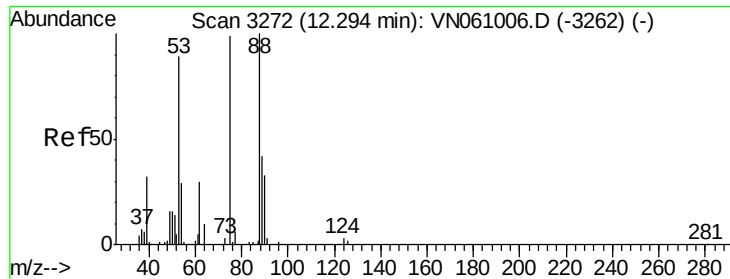
77 1.0 0.0 0.0#



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: 63.727 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN061096.D

Acq: 20 Apr 2020 13:13

Instrument :

MSVOA_N

ClientSampleId :

ST008MW305-200415DL

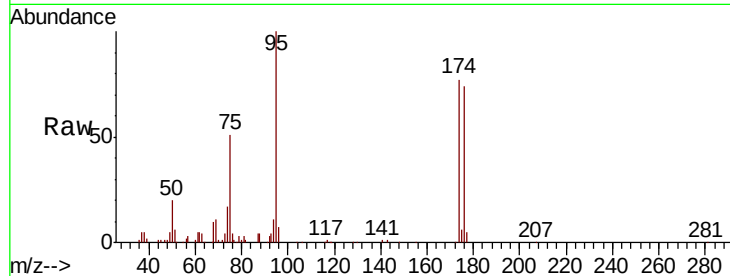
Tot Ion: 75 Resp: 63887

Ion Ratio Lower Upper

75 100

53 0.0 74.7 112.1#

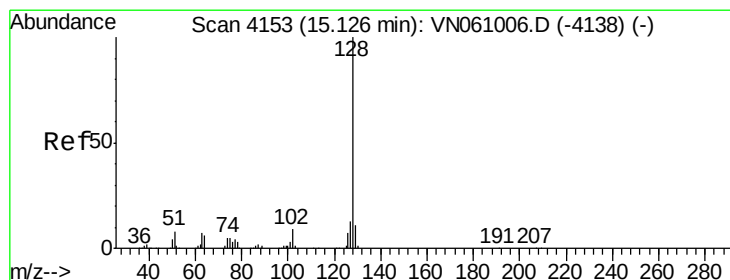
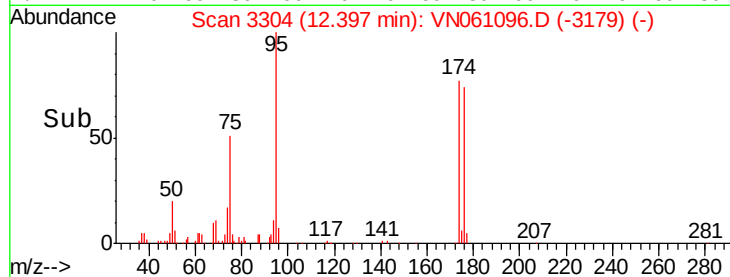
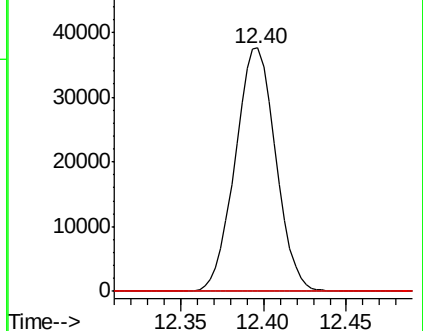
89 0.0 34.6 52.0#



Abundance Ion 74.90 (74.60 to 75.60): VN061096.D (-3179) (-)

Ion 53.00 (52.70 to 53.70): VN061096.D (-3179) (-)

Ion 88.90 (88.60 to 89.60): VN061096.D (-3179) (-)



#95

Naphthalene

Concen: 0.203 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN061096.D

Acq: 20 Apr 2020 13:13

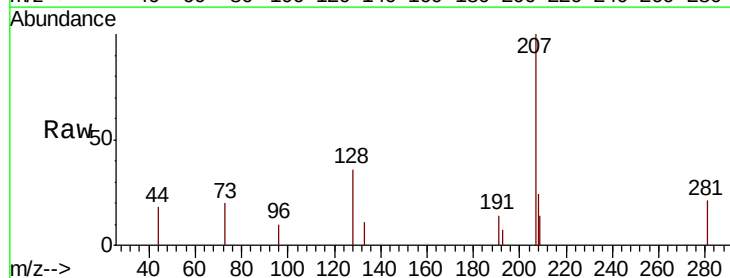
Tgt Ion: 128 Resp: 1256

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.4#

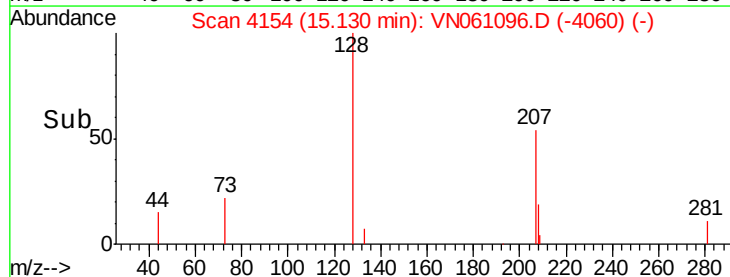
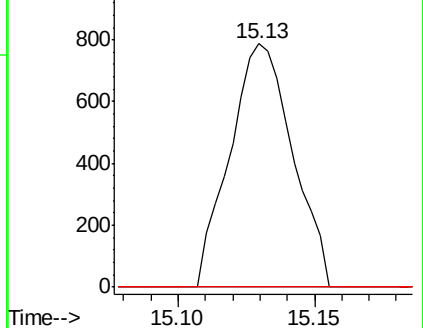
129 0.0 8.6 13.0#

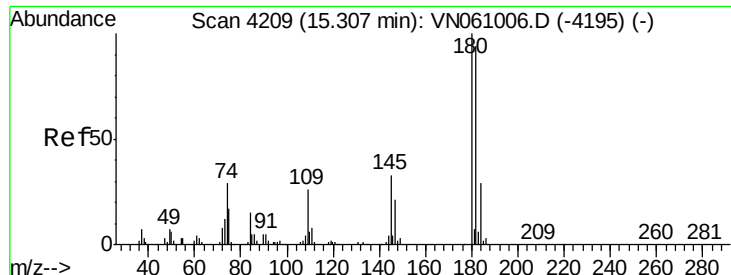


Abundance Ion 128.00 (127.70 to 128.70): VN061096.D (-4060) (-)

Ion 127.00 (126.70 to 127.70): VN061096.D (-4060) (-)

Ion 129.00 (128.70 to 129.70): VN061096.D (-4060) (-)

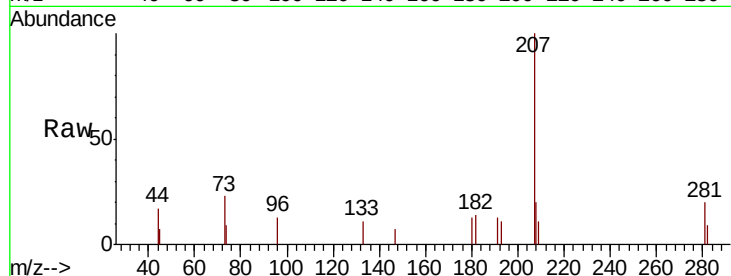




#96
 1,2,3-Trichlorobenzene
 Concen: 0.212 ug/l
 RT: 15.31 min Scan# 4210
 Delta R.T. 0.00 min
 Lab File: VN061096.D
 Acq: 20 Apr 2020 13:13

Instrument :
 MSVOA_N
 ClientSampleId :
 ST008MW305-200415DL

Tot Ion	Ratio	Lower	Upper
180	100		
182	85.2	47.6	142.8
145	0.0	16.4	49.2#



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.90 (144.60 to 145.60): V

