

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061120\
 Data File : VN061745.D
 Acq On : 11 Jun 2020 14:30
 Operator : JC/MD
 Sample : L2988-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TB-20200608

Quant Time: Jun 12 05:09:26 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	278225	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	461479	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	445226	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	193165	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	150366	45.36	ug/l	0.00
Spiked Amount			Recovery	=	90.72%	
35) Dibromofluoromethane	7.55	113	130351	55.68	ug/l	0.00
Spiked Amount			Recovery	=	111.36%	
50) Toluene-d8	10.06	98	550341	50.73	ug/l	0.00
Spiked Amount			Recovery	=	101.46%	
62) 4-Bromofluorobenzene	12.38	95	186815	47.20	ug/l	0.00
Spiked Amount			Recovery	=	94.40%	

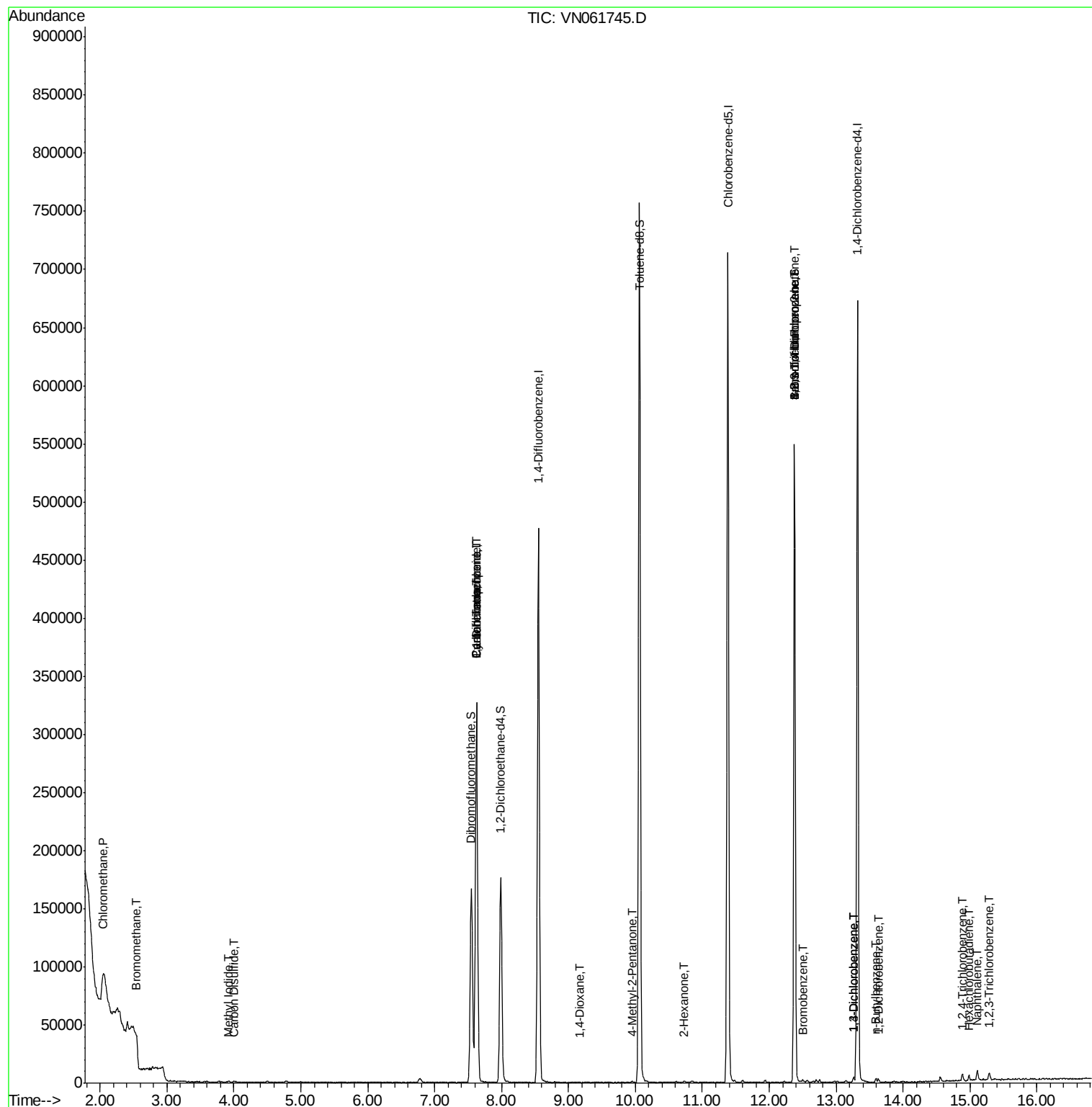
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	1185	0.349	ug/l #	74
5) Bromomethane	2.54	94	1254	0.470	ug/l #	45
10) Methyl Iodide	3.92	142	1192	0.323	ug/l #	86
16) Acetone	3.78	43	997	Below Cal	#	41
17) Carbon Disulfide	4.00	76	1731	0.277	ug/l #	74
20) Methylene Chloride	4.50	84	375	Below Cal	#	56
31) Cyclohexane	7.62	56	5091	1.090	ug/l #	10
36) 1,1-Dichloropropene	7.62	75	18306	4.481	ug/l #	48
38) Carbon Tetrachloride	7.63	117	25474	6.465	ug/l #	17
49) 1,4-Dioxane	9.17	88	29	0.703	ug/l #	1
51) 4-Methyl-2-Pentanone	9.95	43	707	0.212	ug/l	93
59) 2-Hexanone	10.73	43	1148	0.479	ug/l	81
71) Bromoform	12.38	173	1677	0.632	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	90736	25.832	ug/l #	100
77) Bromobenzene	12.50	156	751	0.209	ug/l #	53
81) trans-1,4-Dichloro-2-buten	12.38	75	90736	66.060	ug/l #	15
87) 1,3-Dichlorobenzene	13.26	146	1678	0.263	ug/l	94
88) 1,4-Dichlorobenzene	13.26	146	1678	0.258	ug/l	94
89) n-Butylbenzene	13.59	91	2465	0.238	ug/l	93
91) 1,2-Dichlorobenzene	13.63	146	1510	0.248	ug/l	95
93) 1,2,4-Trichlorobenzene	14.89	180	2496	0.701	ug/l	87
94) Hexachlorobutadiene	14.98	225	958	0.631	ug/l	97
95) Naphthalene	15.11	128	8233	0.759	ug/l	98
96) 1,2,3-Trichlorobenzene	15.29	180	2669	0.762	ug/l	98

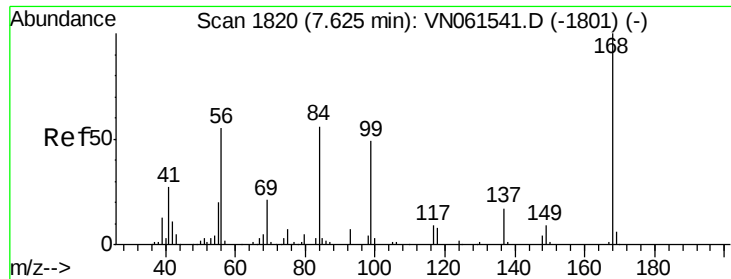
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N052820W.M
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: VN061745.D

Acq: 11 Jun 2020 14:30

Instrument :

MSVOA_N

ClientSampled :

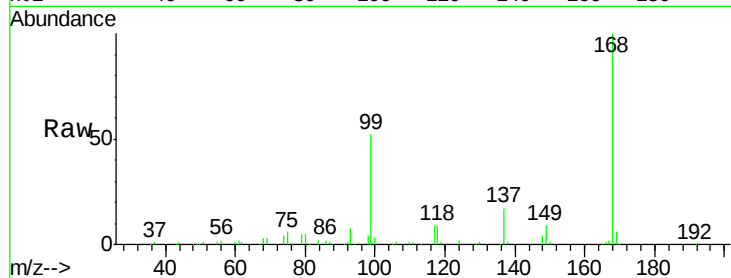
TB-20200608

Tot Ion:168 Resp: 278225

Ion Ratio Lower Upper

168 100

99 52.3 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

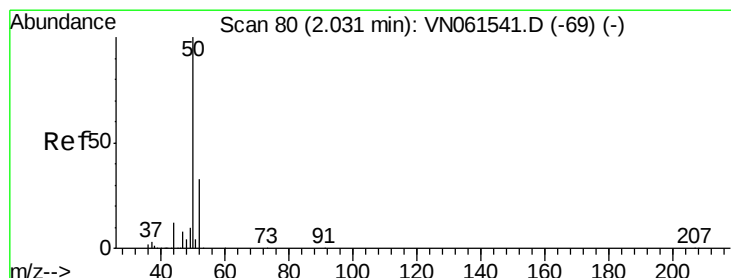
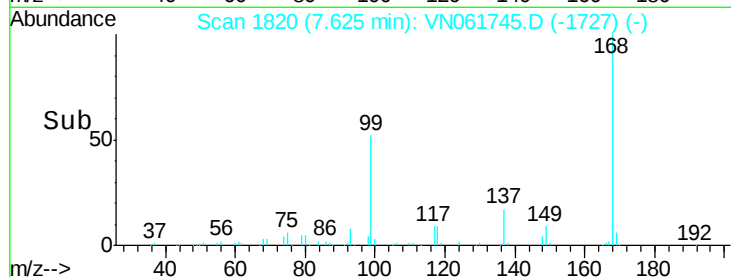
7.63

100000

50000

0

Time--> 7.50 7.60 7.70



#3

Chloromethane

Concen: 0.349 ug/l

RT: 2.04 min Scan# 82

Delta R.T. 0.01 min

Lab File: VN061745.D

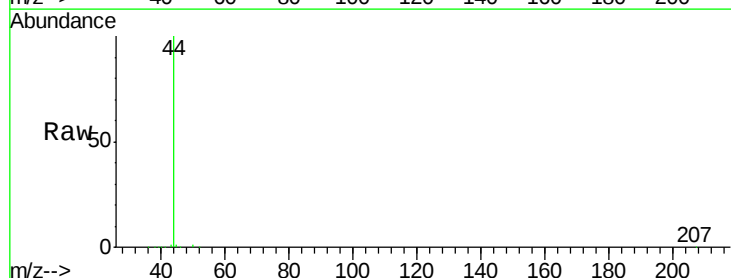
Acq: 11 Jun 2020 14:30

Tgt Ion: 50 Resp: 1185

Ion Ratio Lower Upper

50 100

52 48.1 26.7 40.1#



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.04

800

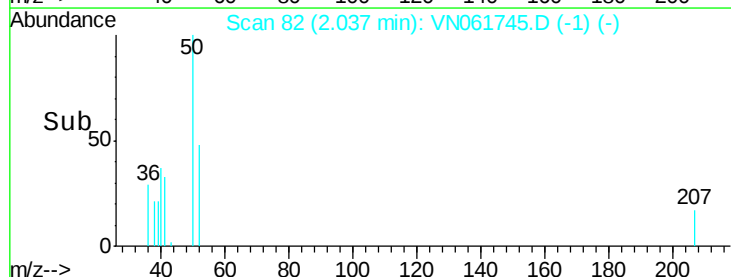
600

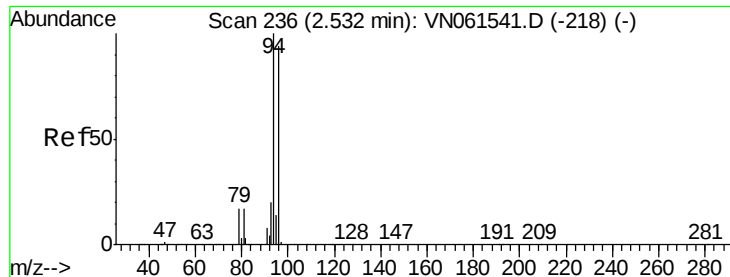
400

200

0

Time--> 2.00 2.02 2.04 2.06 2.08





#5

Bromomethane

Concen: 0.470 ug/l

RT: 2.54 min Scan# 240

Delta R.T. 0.01 min

Lab File: VN061745.D

Acq: 11 Jun 2020 14:30

Instrument :

MSVOA_N

ClientSampleId :

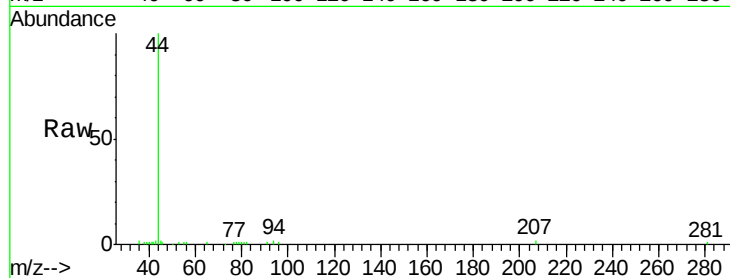
TB-20200608

Tot Ion: 94 Resp: 1254

Ion Ratio Lower Upper

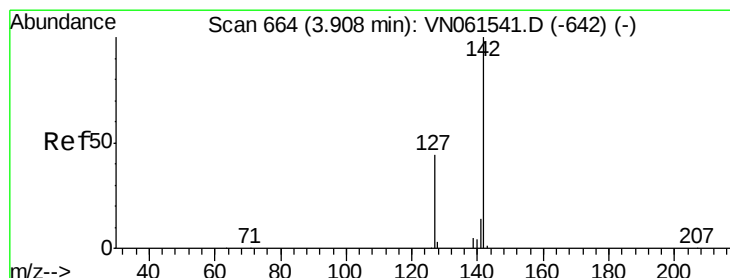
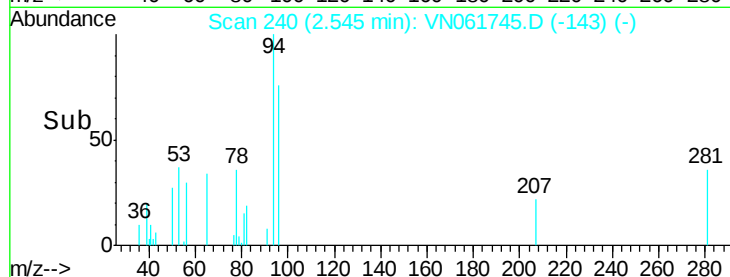
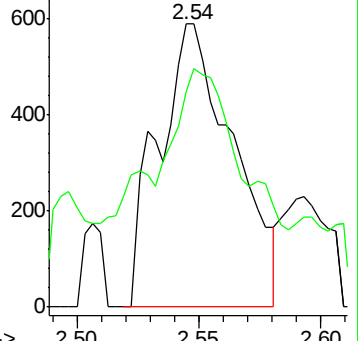
94 100

96 40.3 74.8 112.2#



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#10

Methyl Iodide

Concen: 0.323 ug/l

RT: 3.92 min Scan# 668

Delta R.T. 0.01 min

Lab File: VN061745.D

Acq: 11 Jun 2020 14:30

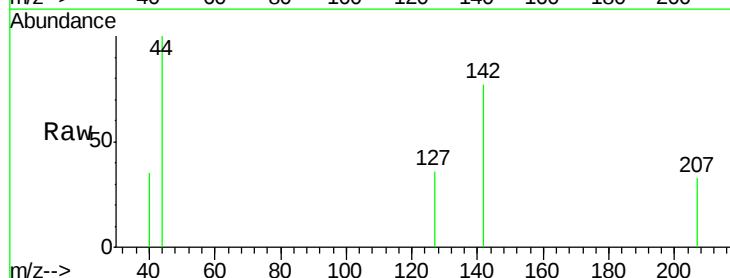
Tgt Ion: 142 Resp: 1192

Ion Ratio Lower Upper

142 100

127 39.8 35.5 53.3

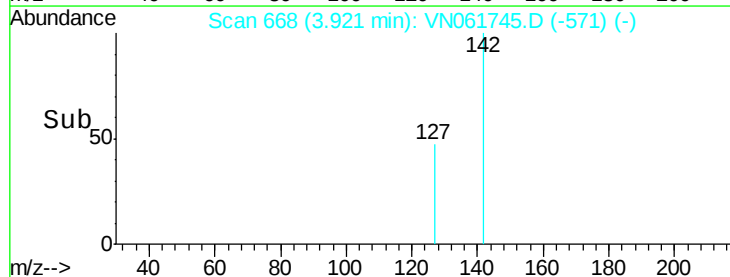
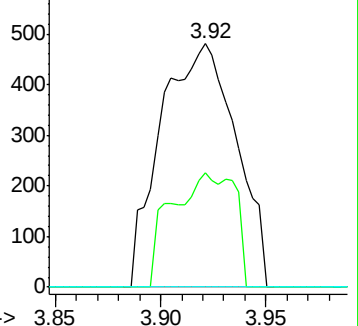
141 0.0 11.5 17.3#

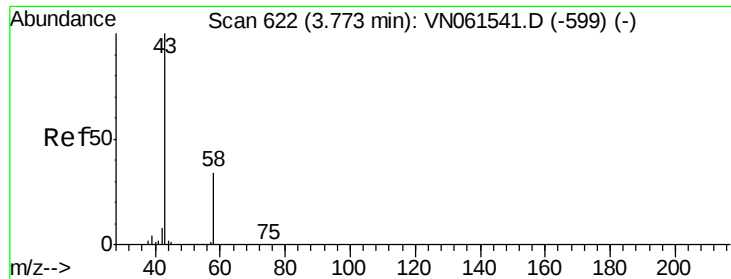


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

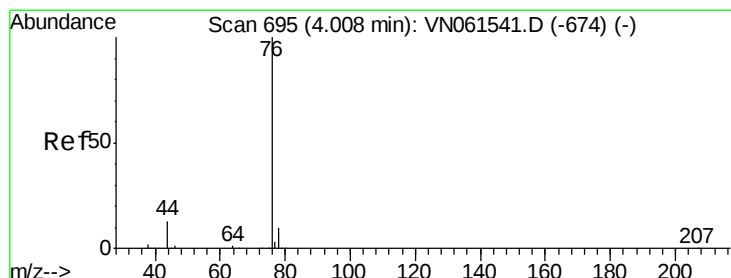
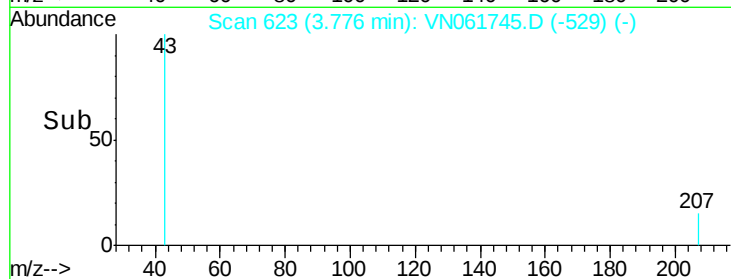
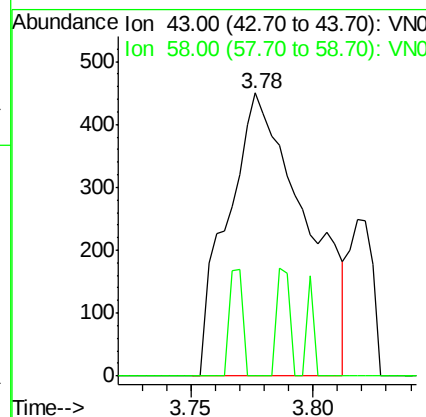
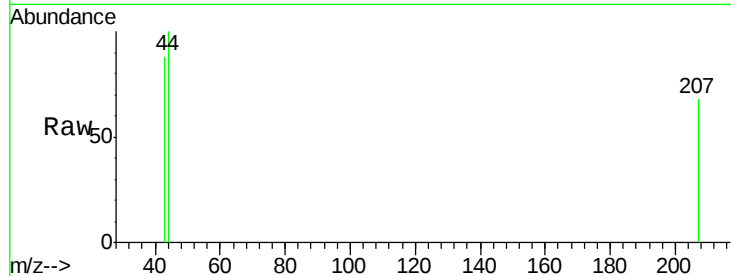




#16
Acetone
Concen: Below Cal
RT: 3.78 min Scan# 623
Delta R.T. 0.00 min
Lab File: VN061745.D
Acq: 11 Jun 2020 14:30

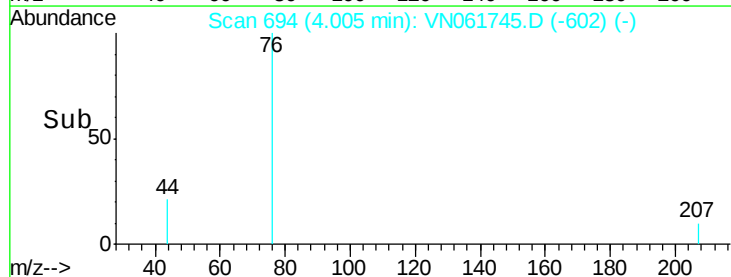
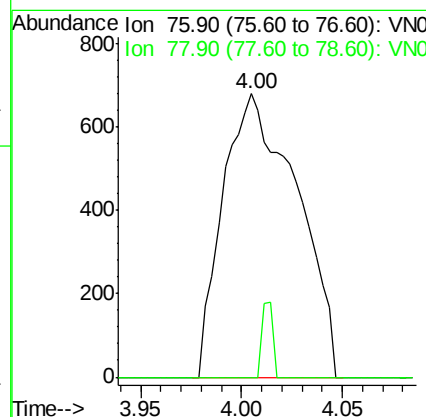
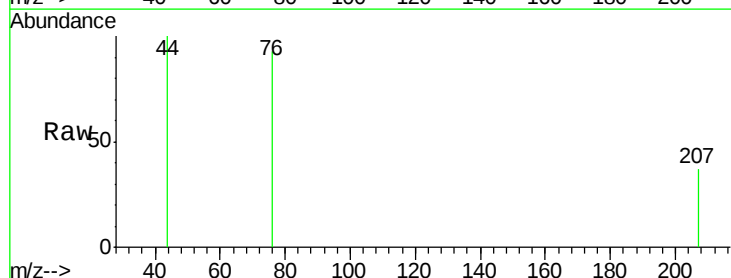
Instrument :
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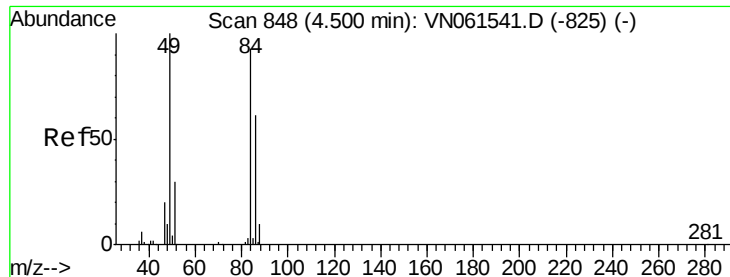
Tot Ion: 43 Resp: 997
Ion Ratio Lower Upper
43 100
58 0.0 27.2 40.8#



#17
Carbon Disulfide
Concen: 0.277 ug/l
RT: 4.00 min Scan# 694
Delta R.T. -0.00 min
Lab File: VN061745.D
Acq: 11 Jun 2020 14:30

Tgt Ion: 76 Resp: 1731
Ion Ratio Lower Upper
76 100
78 0.0 7.8 11.6#

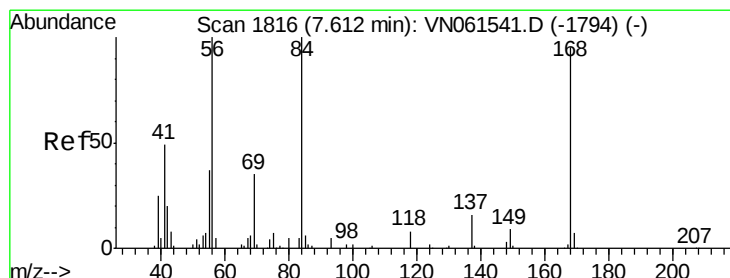
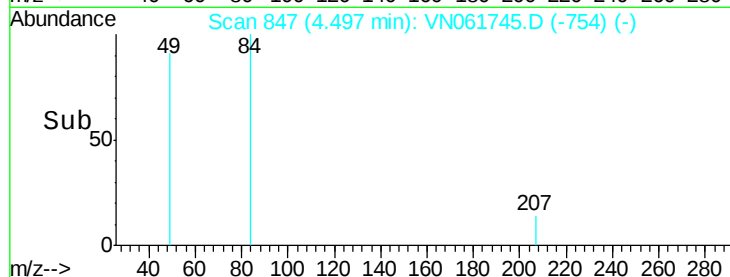
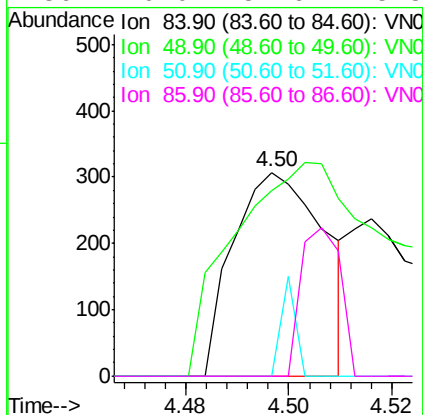
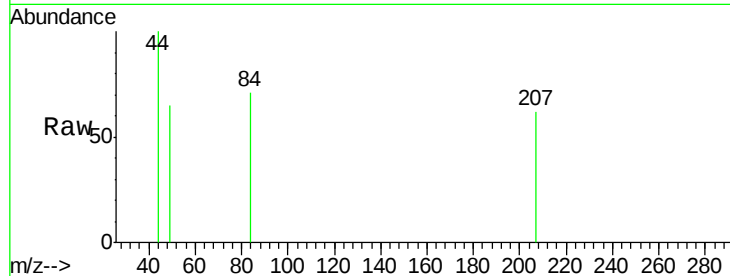




#20
Methvlene Chloride
Concen: Below Cal
RT: 4.50 min Scan# 847
Delta R.T. -0.00 min
Lab File: VN061745.D
Acq: 11 Jun 2020 14:30

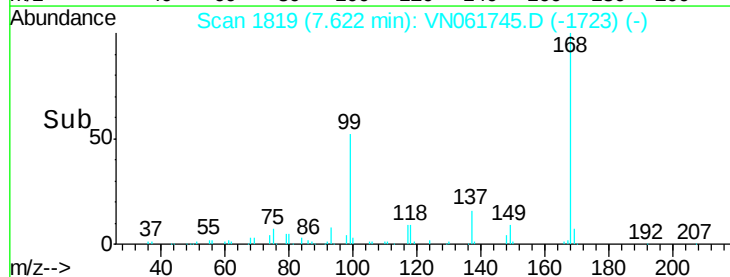
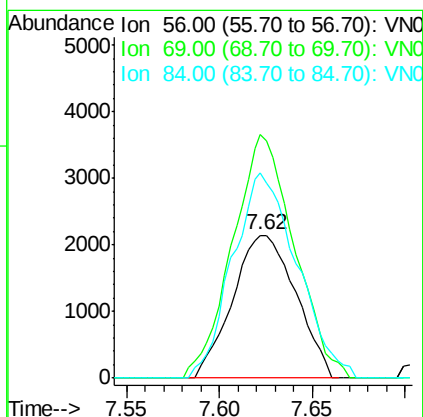
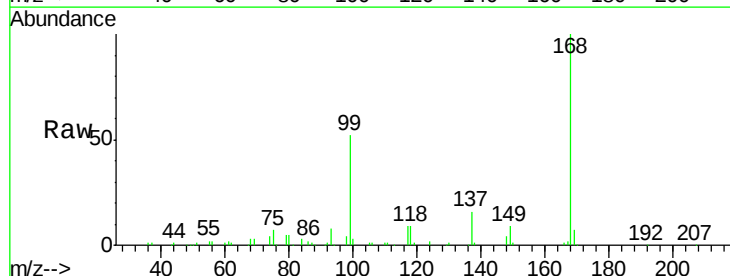
Instrument :
MSVOA_N
ClientSampleId :
TB-20200608

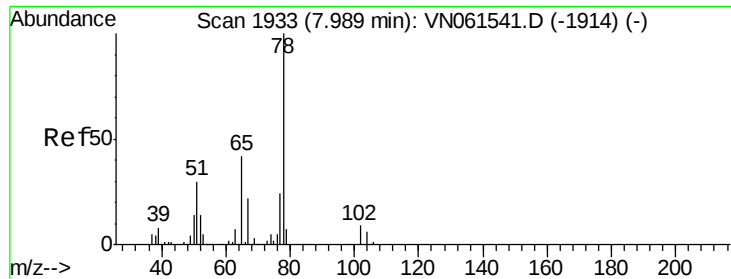
Tot Ion:	84	Resp:	375
Ion	Ratio	Lower	Upper
84	100		
49	90.9	85.8	128.8
51	0.0	26.2	39.2#
86	0.0	52.6	78.8#



#31
Cyclohexane
Concen: 1.090 ug/l
RT: 7.62 min Scan# 1819
Delta R.T. 0.01 min
Lab File: VN061745.D
Acq: 11 Jun 2020 14:30

Tgt Ion:	56	Resp:	5091
Ion	Ratio	Lower	Upper
56	100		
69	163.2	27.8	41.8#
84	144.0	79.9	119.9#

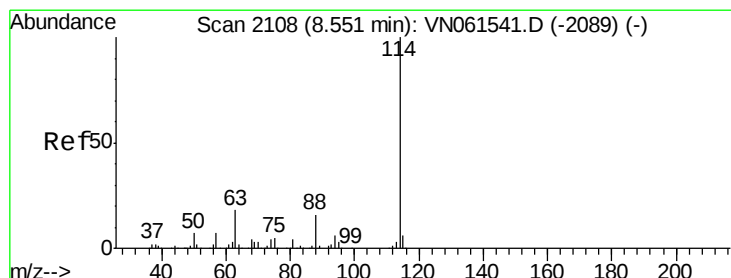
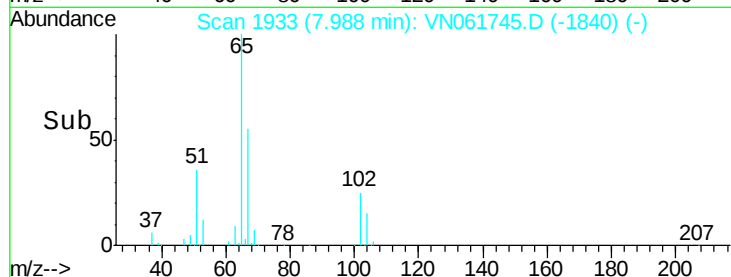
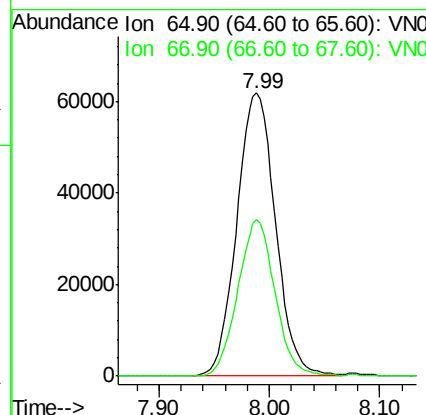
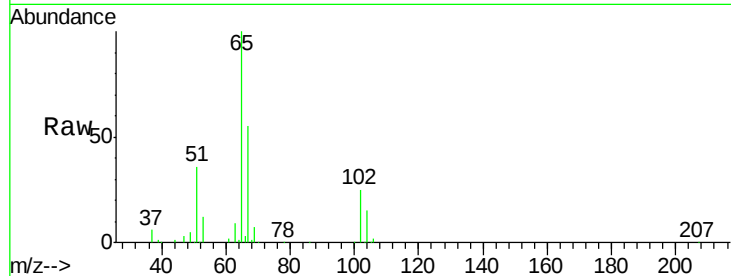




#33
 1,2-Dichloroethane-d4
 Concen: 45.361 ug/l
 RT: 7.99 min Scan# 1933
 Delta R.T. -0.00 min
 Lab File: VN061745.D
 Acq: 11 Jun 2020 14:30

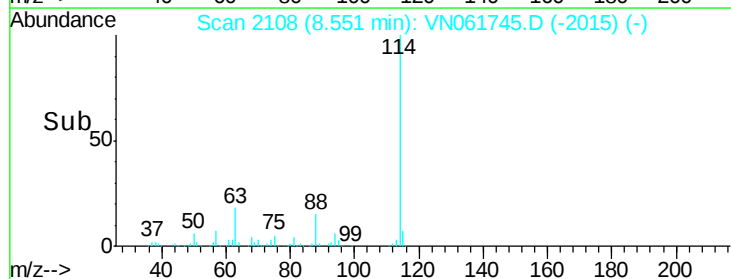
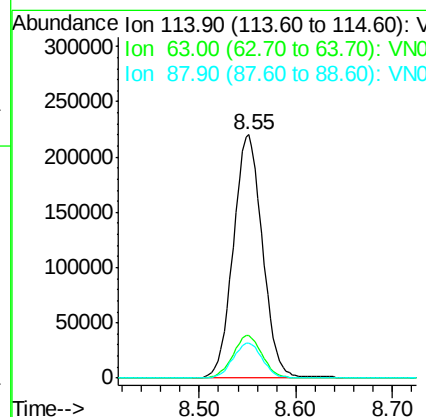
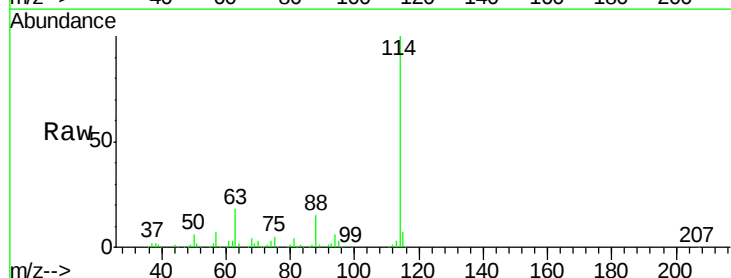
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 TB-20200608

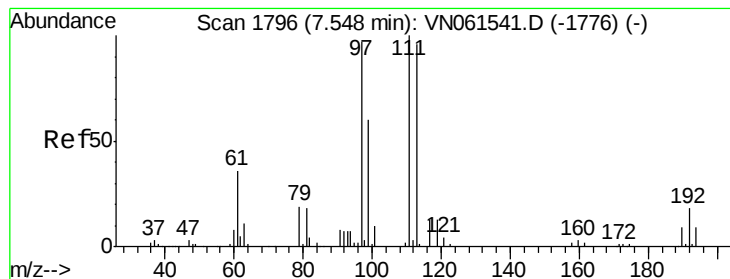
Tot Ion: 65 Resp: 150366
 Ion Ratio Lower Upper
 65 100
 67 52.9 0.0 104.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. -0.00 min
 Lab File: VN061745.D
 Acq: 11 Jun 2020 14:30

Tgt Ion: 114 Resp: 461479
 Ion Ratio Lower Upper
 114 100
 63 17.6 0.0 35.8
 88 14.6 0.0 31.0





#35

Dibromofluoromethane

Concen: 55.682 ug/l

RT: 7.55 min Scan# 1796

Delta R.T. -0.00 min

Lab File: VN061745.D

Acq: 11 Jun 2020 14:30

Instrument :

MSVOA_N

ClientSampleId :

TB-20200608

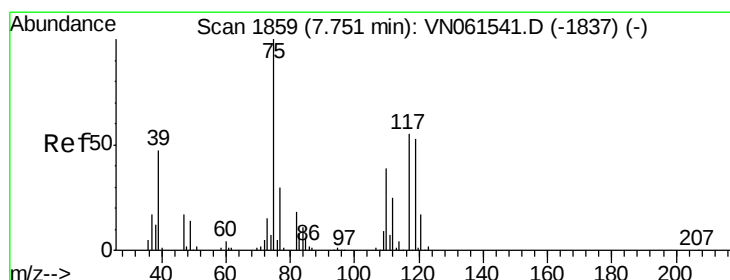
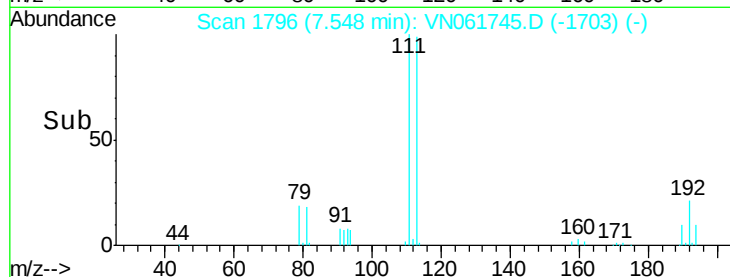
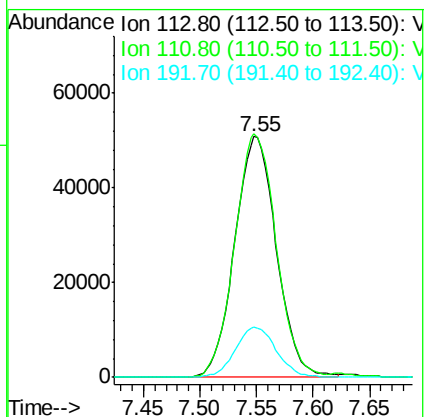
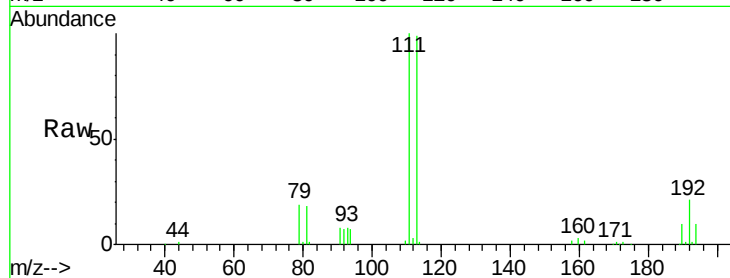
Tot Ion:113 Resp: 130351

Ion Ratio Lower Upper

113 100

111 100.9 83.4 125.0

192 20.5 15.4 23.2



#36

1,1-Dichloropropene

Concen: 4.481 ug/l

RT: 7.62 min Scan# 1819

Delta R.T. -0.13 min

Lab File: VN061745.D

Acq: 11 Jun 2020 14:30

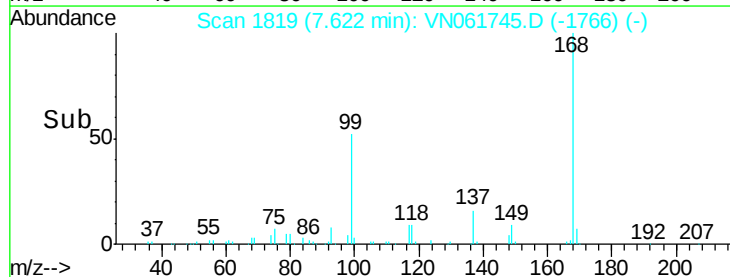
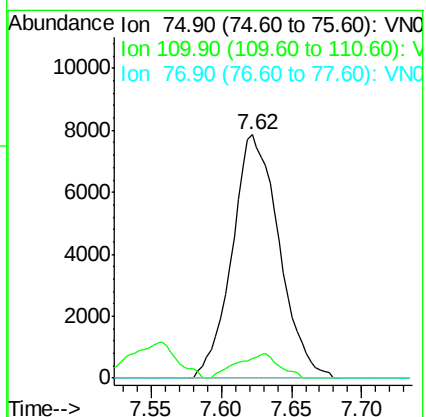
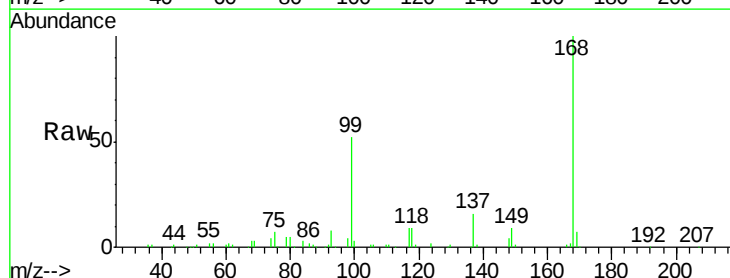
Tgt Ion: 75 Resp: 18306

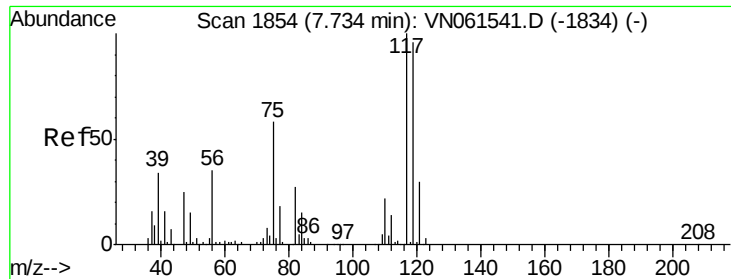
Ion Ratio Lower Upper

75 100

110 9.0 19.5 58.5#

77 0.0 24.7 37.1#

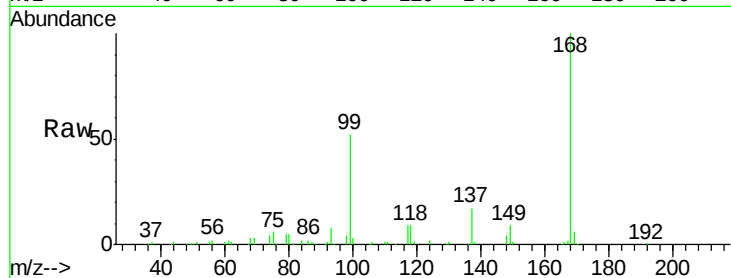




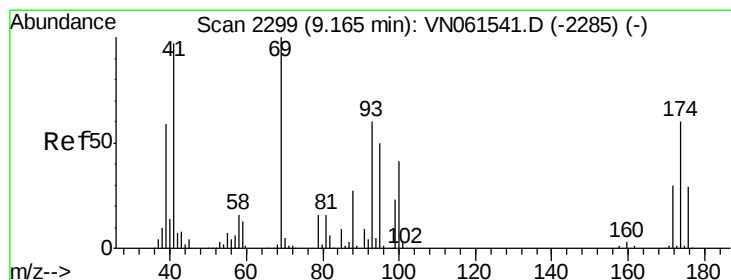
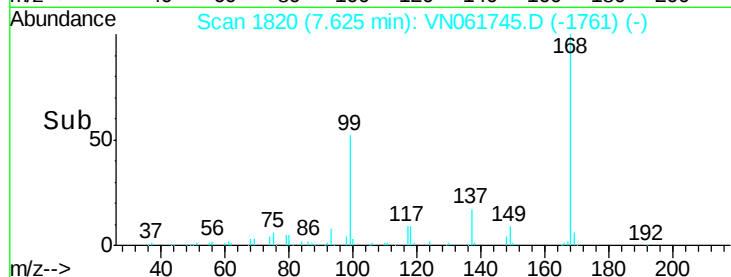
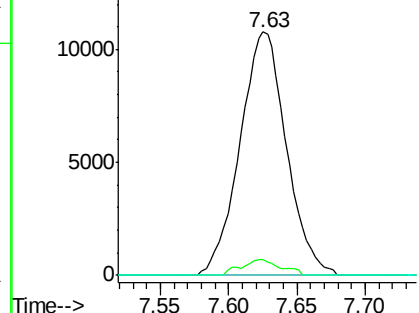
#38
Carbon Tetrachloride
Concen: 6.465 ug/l
RT: 7.63 min Scan# 1820
Delta R.T. -0.11 min
Lab File: VN061745.D
Acq: 11 Jun 2020 14:30

Instrument :
MSVOA_N
ClientSampled :
TB-20200608

Tot Ion:117 Resp: 25474
Ion Ratio Lower Upper
117 100
119 6.3 76.5 114.7#
121 0.0 24.1 36.1#

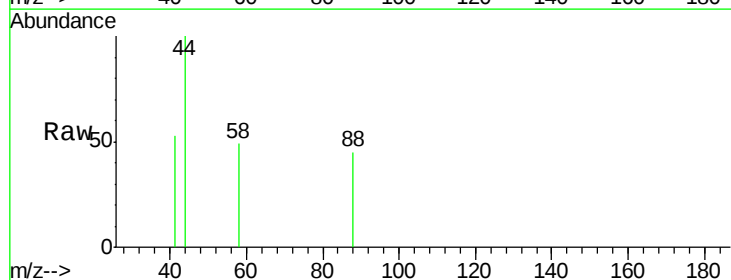


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

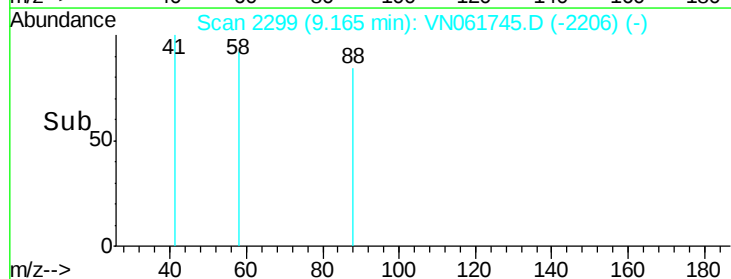
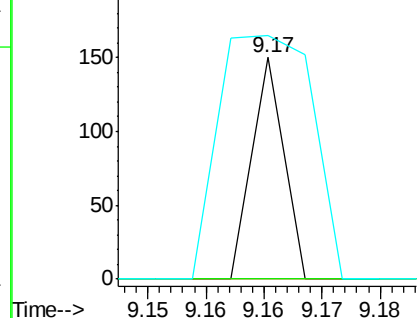


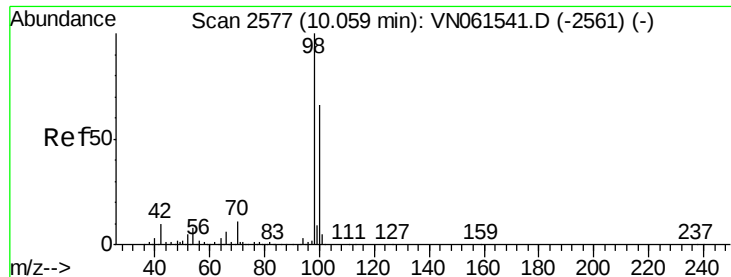
#49
1,4-Dioxane
Concen: 0.703 ug/l
RT: 9.17 min Scan# 2299
Delta R.T. -0.00 min
Lab File: VN061745.D
Acq: 11 Jun 2020 14:30

Tgt Ion: 88 Resp: 29
Ion Ratio Lower Upper
88 100
43 0.0 23.1 34.7#
58 320.7 48.3 72.5#



Abundance Ion 88.00 (87.70 to 88.70): VNO
Ion 43.00 (42.70 to 43.70): VNO
Ion 58.00 (57.70 to 58.70): VNO





#50

Toluene-d8

Concen: 50.730 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. -0.00 min

Lab File: VN061745.D

Acq: 11 Jun 2020 14:30

Instrument :

MSVOA_N

ClientSampleId :

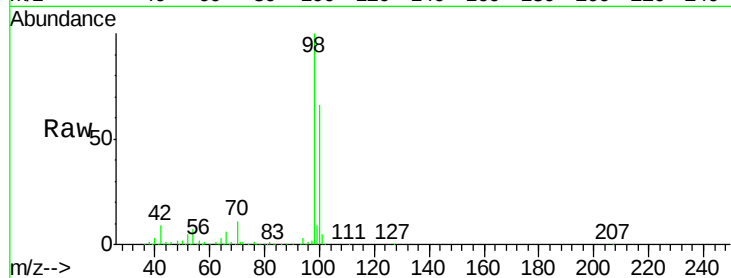
TB-20200608

Tot Ion: 98 Resp: 550341

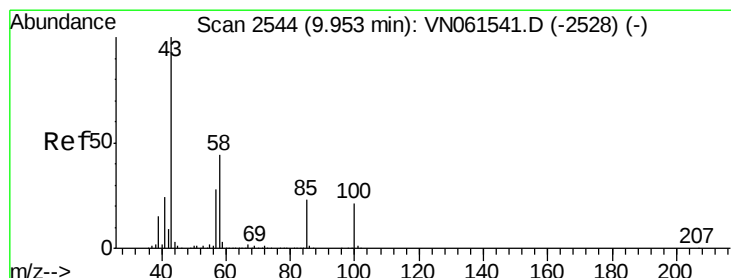
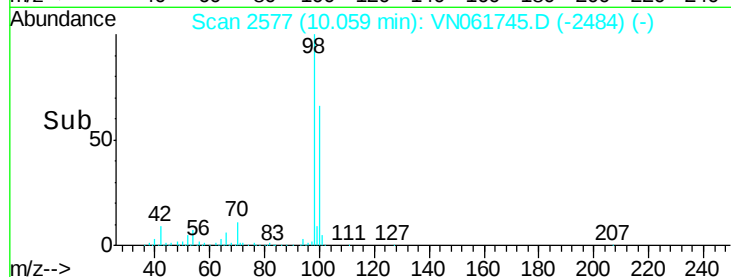
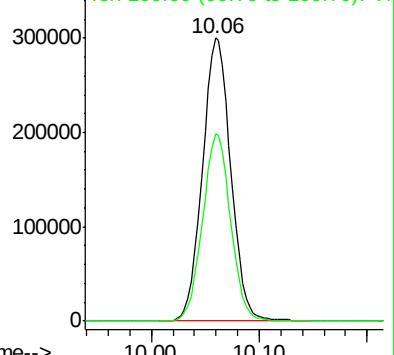
Ion Ratio Lower Upper

98 100

100 65.3 52.8 79.2



Abundance Ion 98.00 (97.70 to 98.70): VN061745.D (-2484) (-)



#51

4-Methyl-2-Pentanone

Concen: 0.212 ug/l

RT: 9.95 min Scan# 2543

Delta R.T. -0.00 min

Lab File: VN061745.D

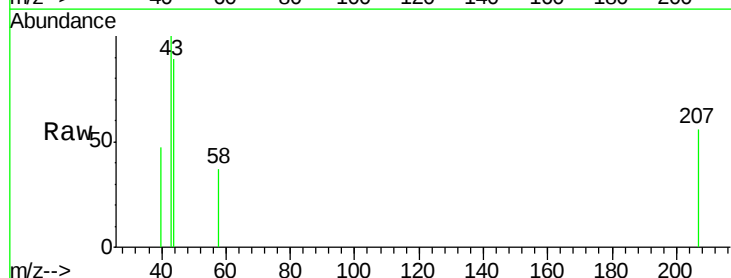
Acq: 11 Jun 2020 14:30

Tgt Ion: 43 Resp: 707

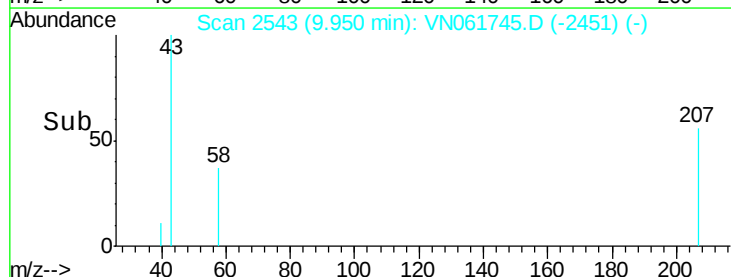
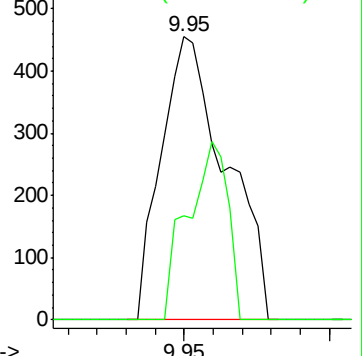
Ion Ratio Lower Upper

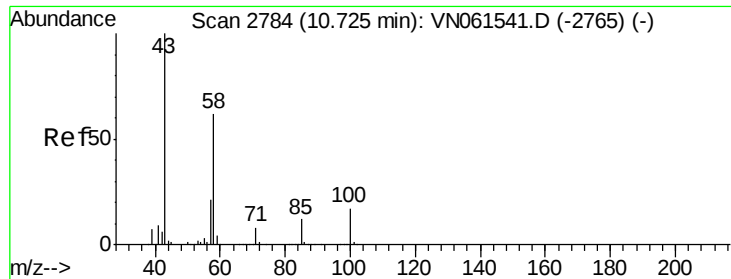
43 100

58 39.5 35.0 52.6



Abundance Ion 43.00 (42.70 to 43.70): VN061745.D (-2451) (-)

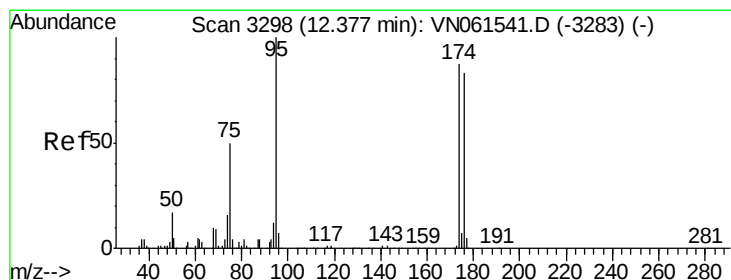
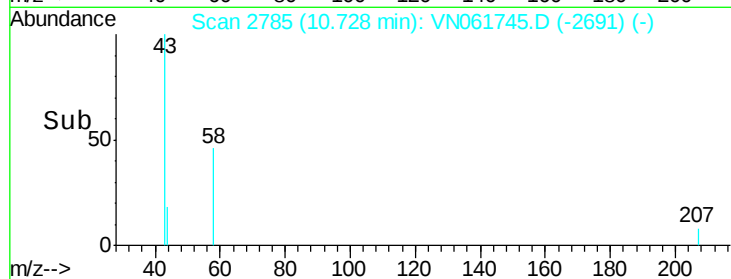
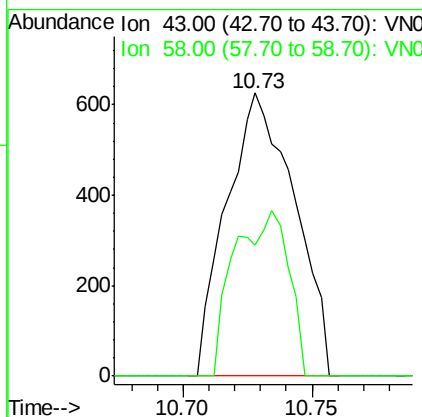
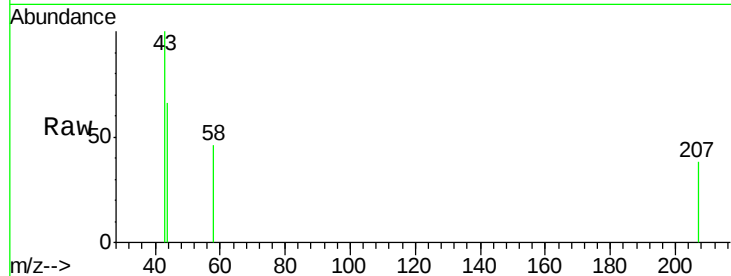




#59
2-Hexanone
Concen: 0.479 ug/l
RT: 10.73 min Scan# 2785
Delta R.T. 0.00 min
Lab File: VN061745.D
Acq: 11 Jun 2020 14:30

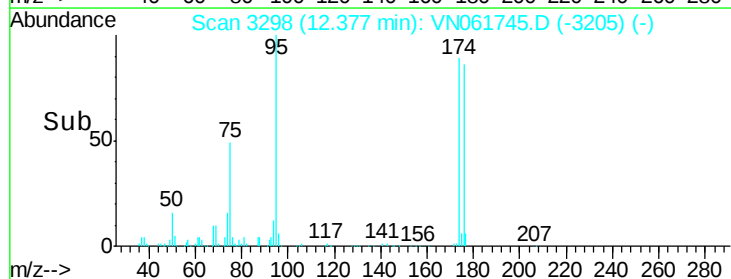
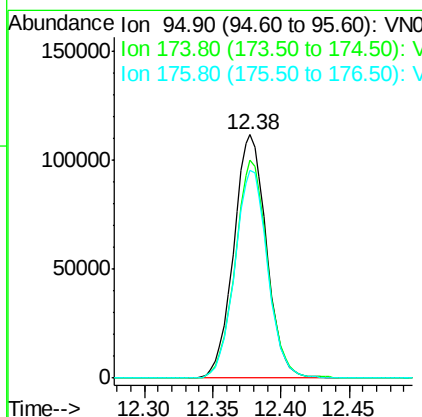
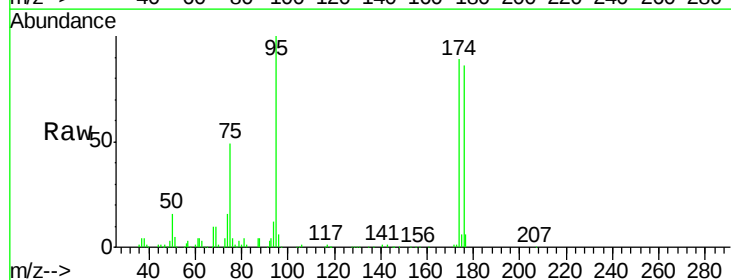
Instrument :
MSVOA_N
ClientSampleId :
TB-20200608

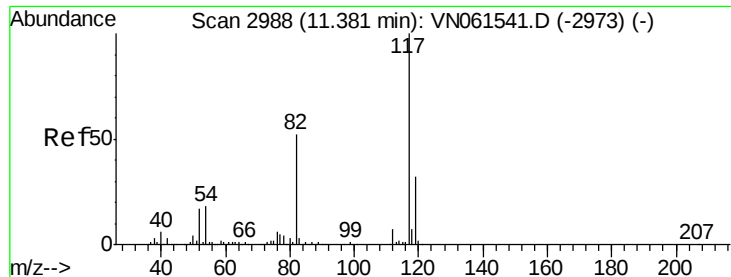
Tot Ion: 43 Resp: 1148
Ion Ratio Lower Upper
43 100
58 46.8 30.7 92.1



#62
4-Bromofluorobenzene
Concen: 47.200 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. -0.00 min
Lab File: VN061745.D
Acq: 11 Jun 2020 14:30

Tgt Ion: 95 Resp: 186815
Ion Ratio Lower Upper
95 100
174 88.6 0.0 172.8
176 85.4 0.0 164.8

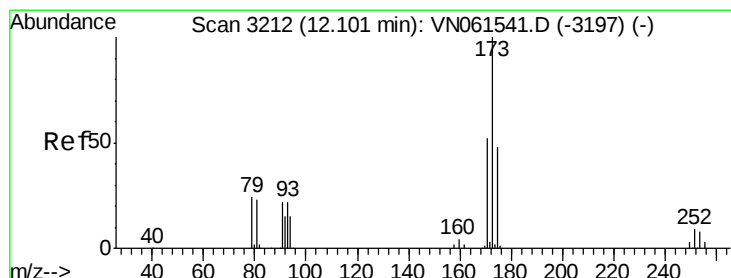
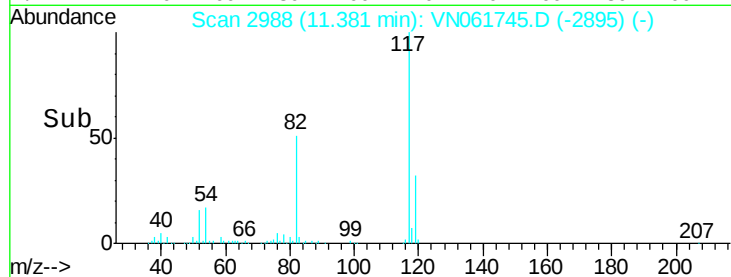
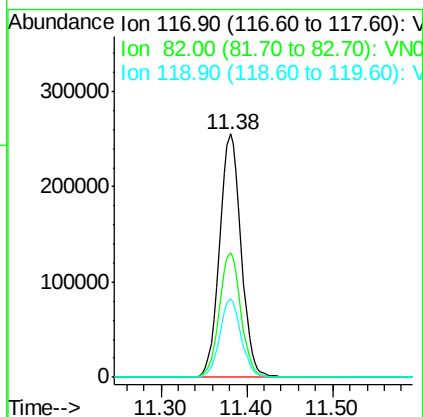
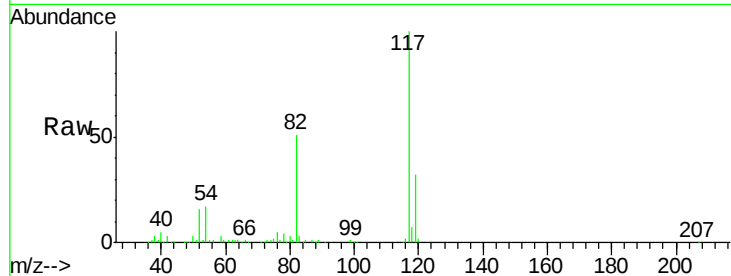




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. -0.00 min
Lab File: VN061745.D
Acq: 11 Jun 2020 14:30

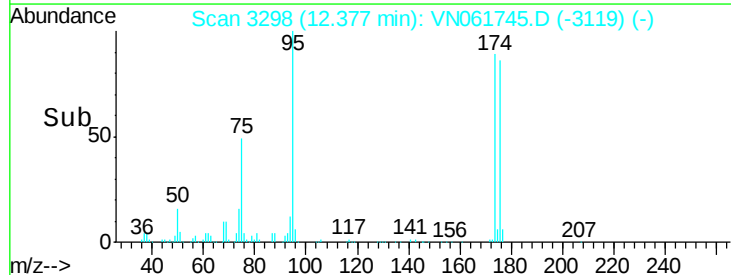
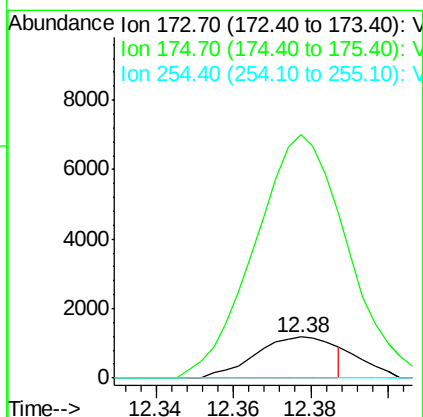
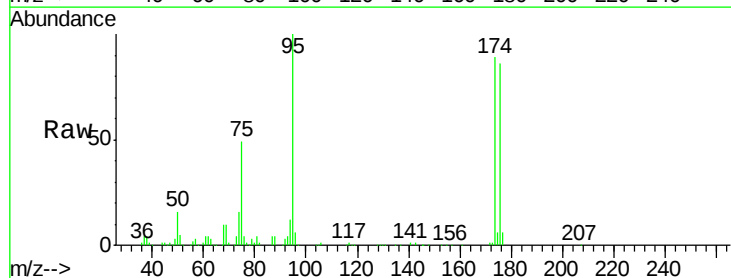
Instrument :
MSVOA_N
ClientSampleId :
TB-20200608

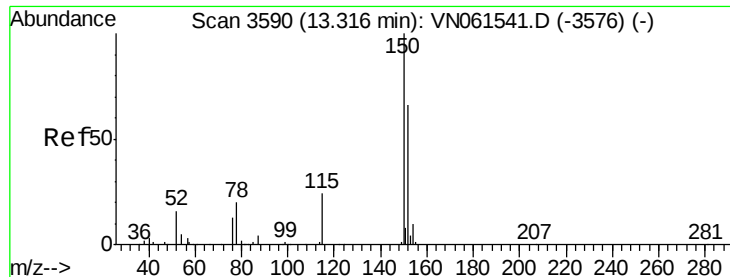
Tot Ion:117 Resp: 445226
Ion Ratio Lower Upper
117 100
82 51.3 41.5 62.3
119 32.1 25.6 38.4



#71
Bromoform
Concen: 0.632 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.28 min
Lab File: VN061745.D
Acq: 11 Jun 2020 14:30

Tgt Ion:173 Resp: 1677
Ion Ratio Lower Upper
173 100
175 581.3 24.4 73.2#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN061745.D

Acq: 11 Jun 2020 14:30

Instrument :

MSVOA_N

ClientSampleId :

TB-20200608

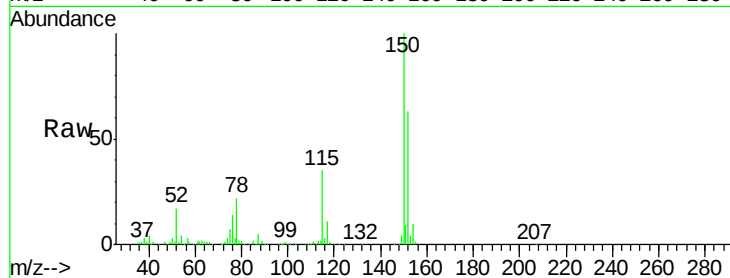
Tot Ion:152 Resp: 193165

Ion Ratio Lower Upper

152 100

115 54.8 28.0 84.0

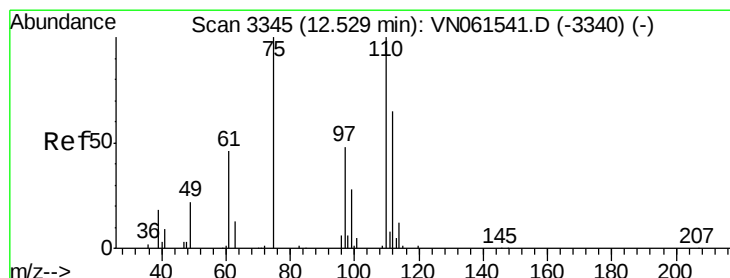
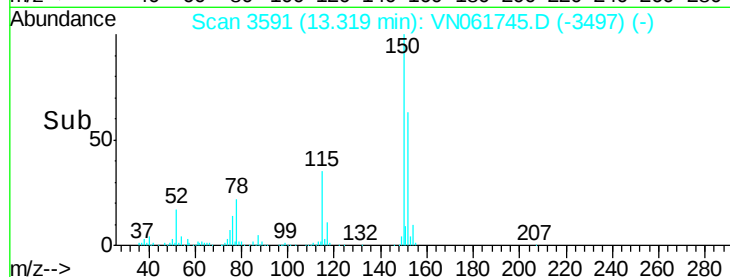
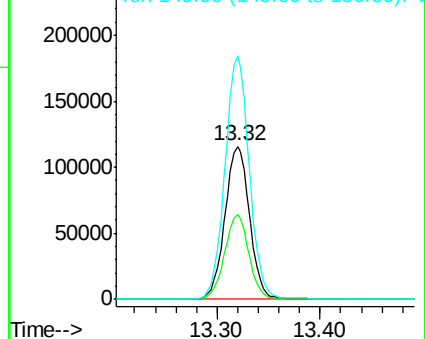
150 156.1 0.0 344.0



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: 25.832 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN061745.D

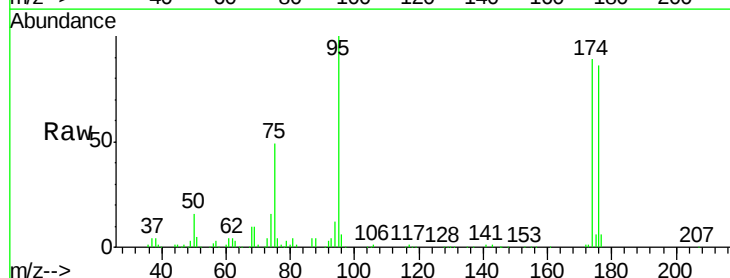
Acq: 11 Jun 2020 14:30

Tgt Ion: 75 Resp: 90736

Ion Ratio Lower Upper

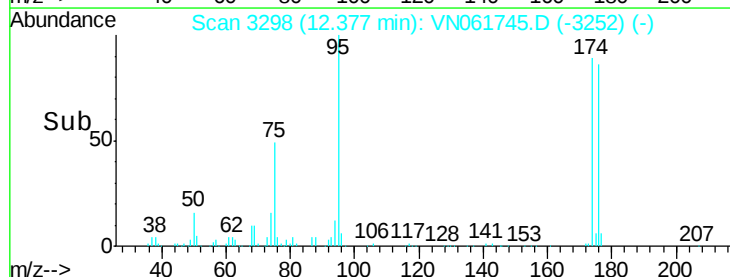
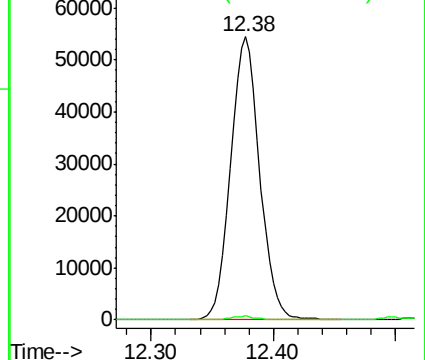
75 100

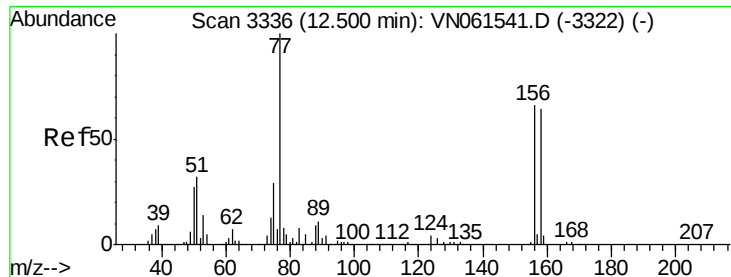
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#77

Bromobenzene

Concen: 0.209 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN061745.D

Acq: 11 Jun 2020 14:30

Instrument :

MSVOA_N

ClientSampled :

TB-20200608

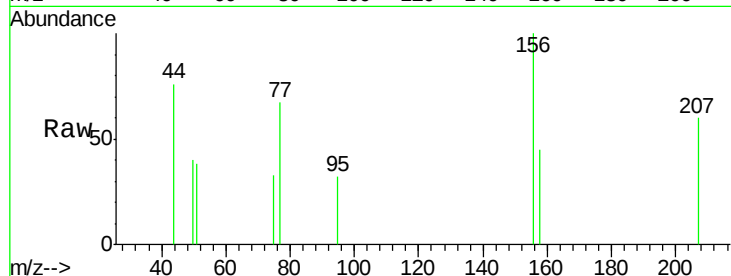
Tot Ion:156 Resp: 751

Ion Ratio Lower Upper

156 100

77 118.9 90.9 272.7

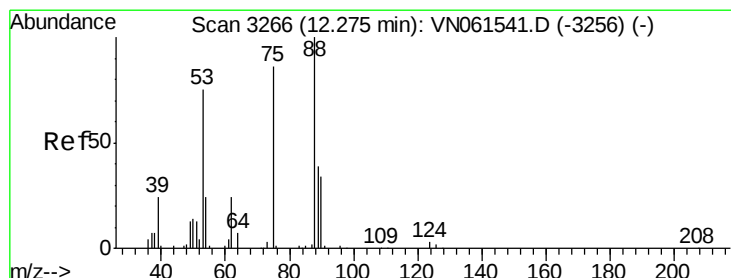
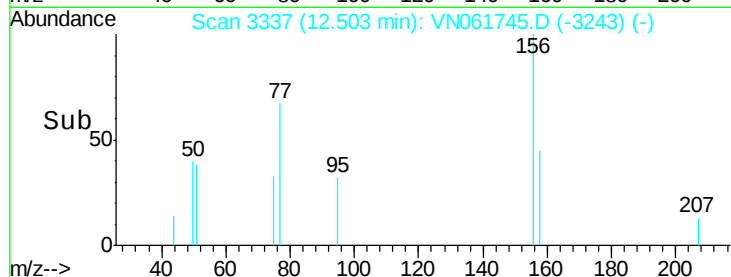
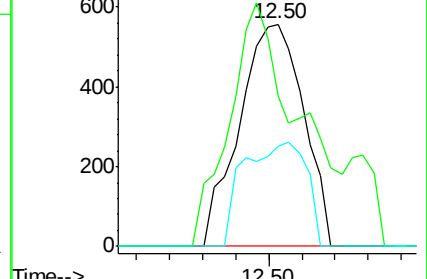
158 45.9 48.4 145.3#



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VNO

Ion 157.80 (157.50 to 158.50): V



#81

trans-1,4-Dichloro-2-butene

Concen: 66.060 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN061745.D

Acq: 11 Jun 2020 14:30

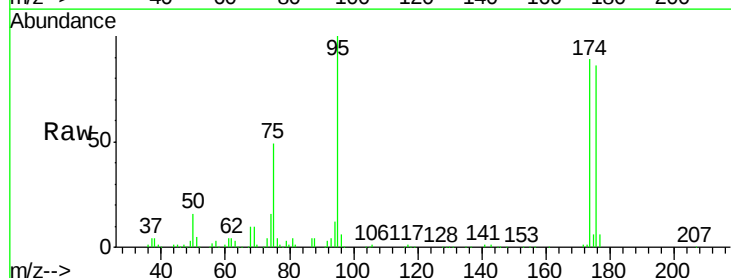
Tgt Ion: 75 Resp: 90736

Ion Ratio Lower Upper

75 100

53 0.0 67.8 101.8#

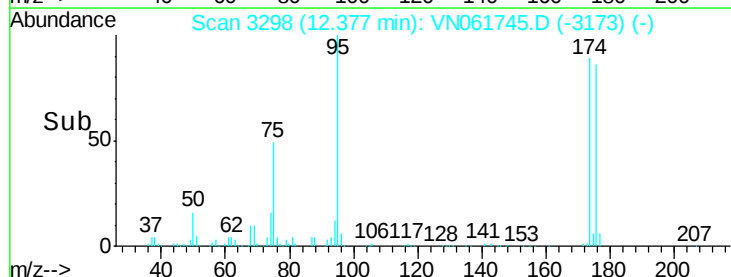
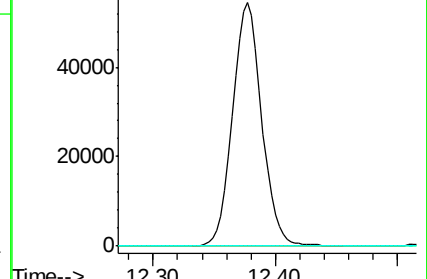
89 0.0 37.1 55.7#

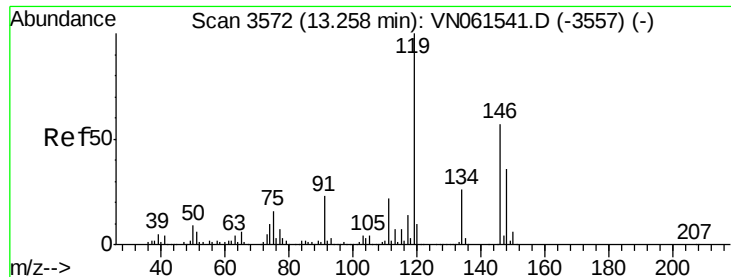


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

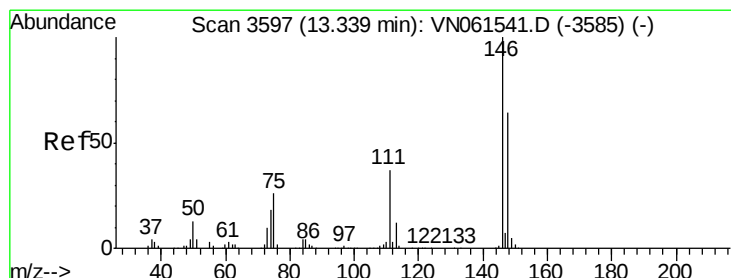
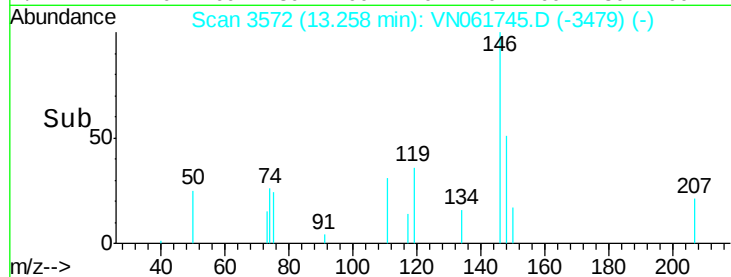
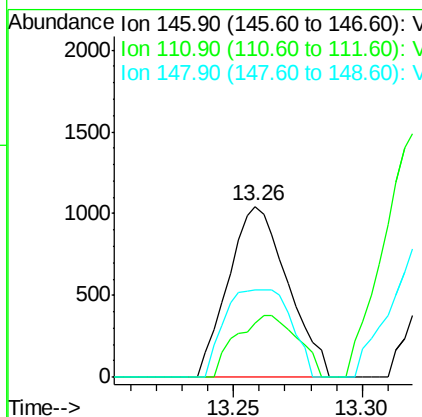
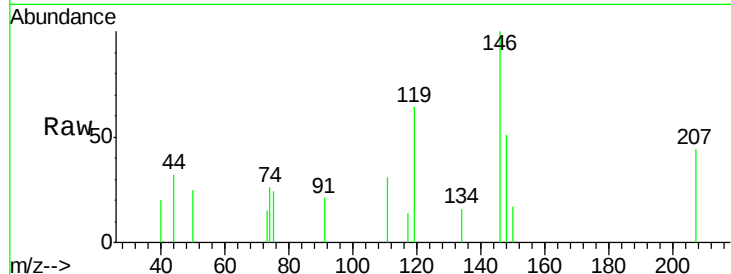




#87
 1,3-Dichlorobenzene
 Concen: 0.263 ug/l
 RT: 13.26 min Scan# 3572
 Delta R.T. -0.00 min
 Lab File: VN061745.D
 Acq: 11 Jun 2020 14:30

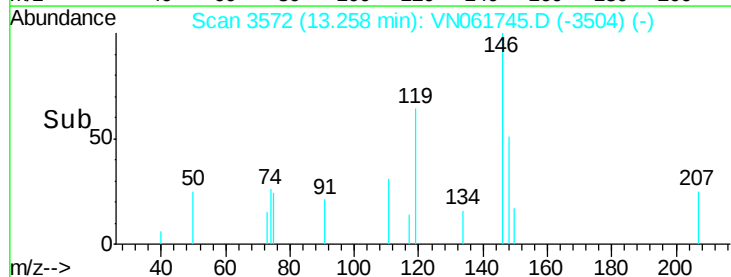
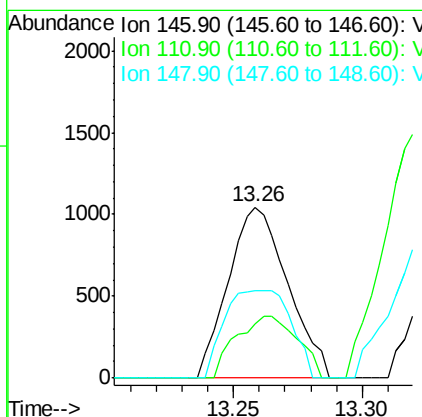
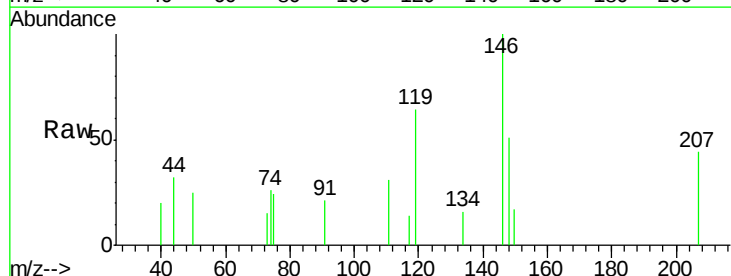
Instrument :
 MSVOA_N
 ClientSampled :
 TB-20200608

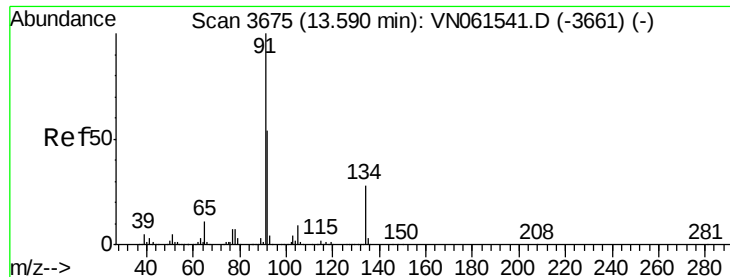
Tot Ion:146 Resp: 1678
 Ion Ratio Lower Upper
 146 100
 111 37.2 19.2 57.6
 148 57.0 31.7 95.1



#88
 1,4-Dichlorobenzene
 Concen: 0.258 ug/l
 RT: 13.26 min Scan# 3572
 Delta R.T. -0.08 min
 Lab File: VN061745.D
 Acq: 11 Jun 2020 14:30

Tgt Ion:146 Resp: 1678
 Ion Ratio Lower Upper
 146 100
 111 37.2 18.9 56.9
 148 57.0 31.8 95.3

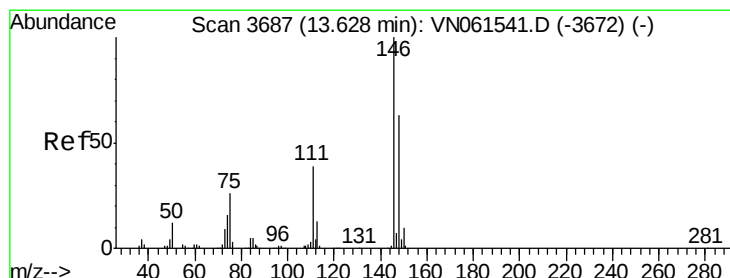
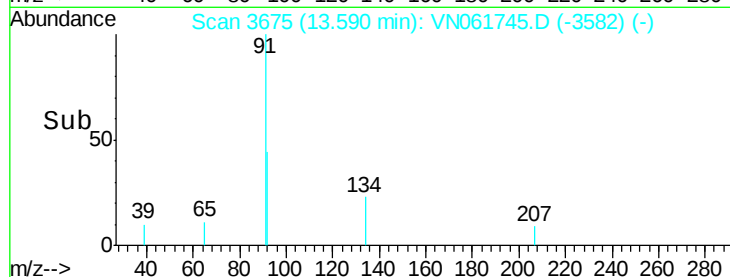
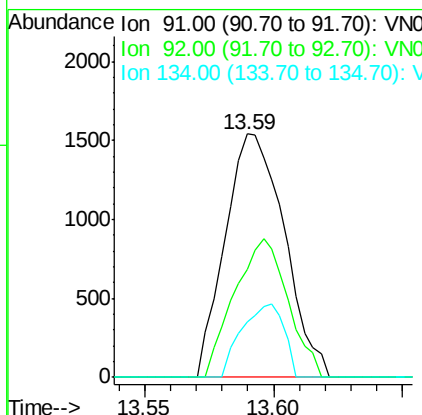
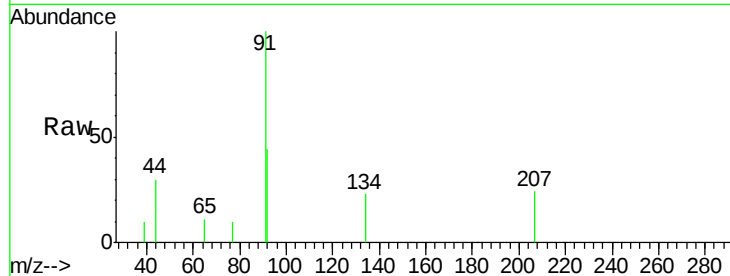




#89
n-Butylbenzene
Concen: 0.238 ug/l
RT: 13.59 min Scan# 3675
Delta R.T. -0.00 min
Lab File: VN061745.D
Acq: 11 Jun 2020 14:30

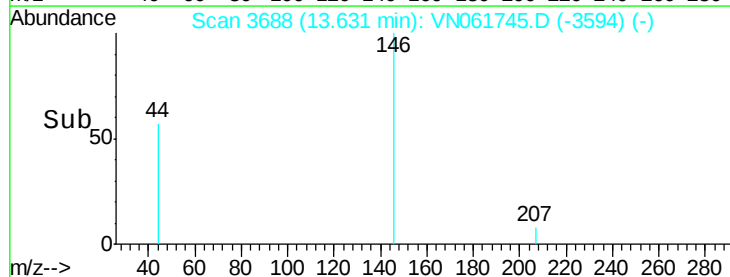
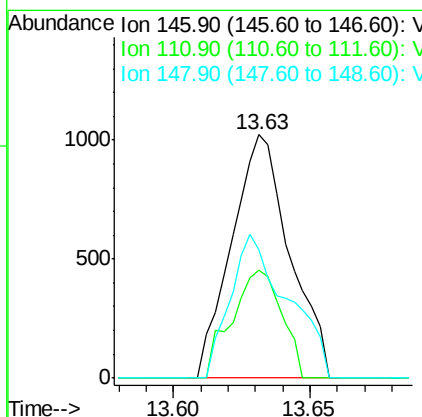
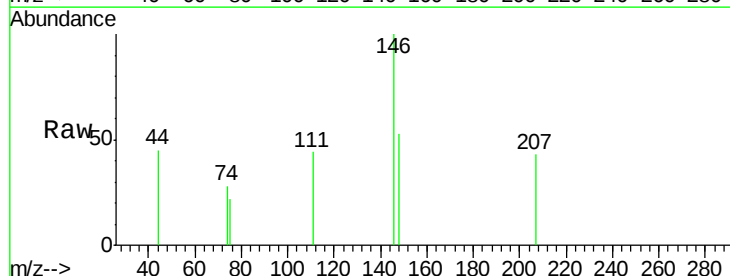
Instrument :
MSVOA_N
ClientSampleId :
TB-20200608

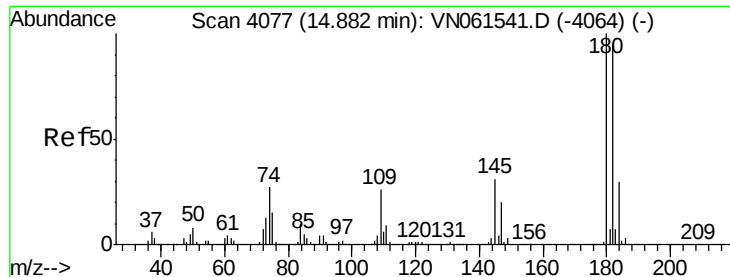
Tot Ion: 91 Resp: 2465
Ion Ratio Lower Upper
91 100
92 51.6 27.2 81.6
134 21.7 14.0 42.0



#91
1,2-Dichlorobenzene
Concen: 0.248 ug/l
RT: 13.63 min Scan# 3688
Delta R.T. 0.00 min
Lab File: VN061745.D
Acq: 11 Jun 2020 14:30

Tgt Ion: 146 Resp: 1510
Ion Ratio Lower Upper
146 100
111 38.1 20.1 60.2
148 58.5 31.9 95.5

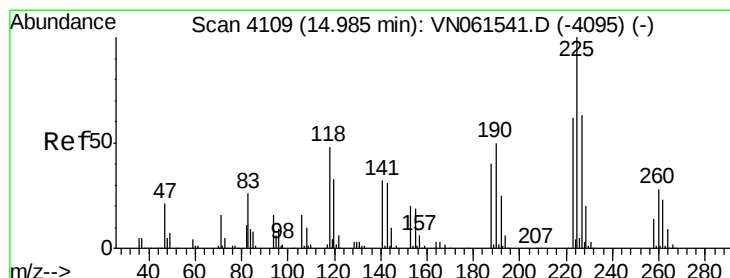
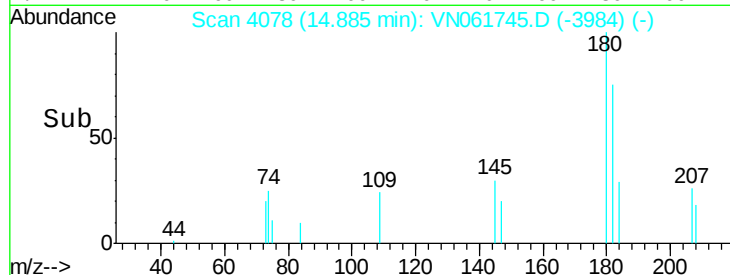
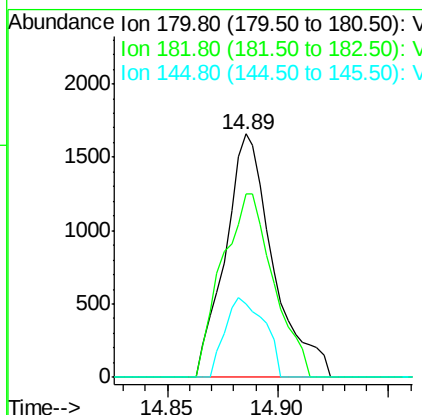
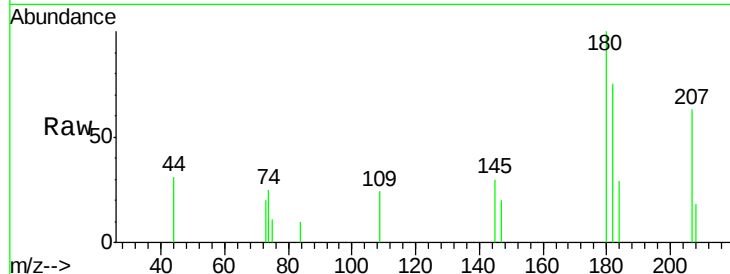




#93
 1,2,4-Trichlorobenzene
 Concen: 0.701 ug/l
 RT: 14.89 min Scan# 4078
 Delta R.T. 0.00 min
 Lab File: VN061745.D
 Acq: 11 Jun 2020 14:30

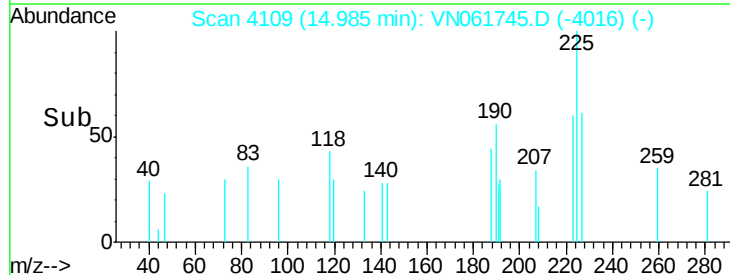
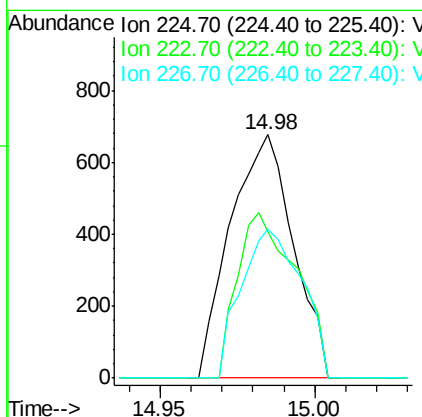
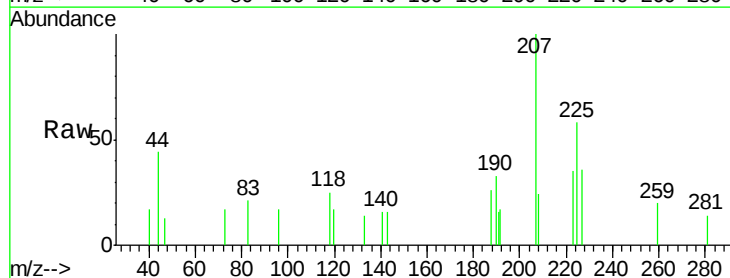
Instrument :
 MSVOA_N
 ClientSampleId :
 TB-20200608

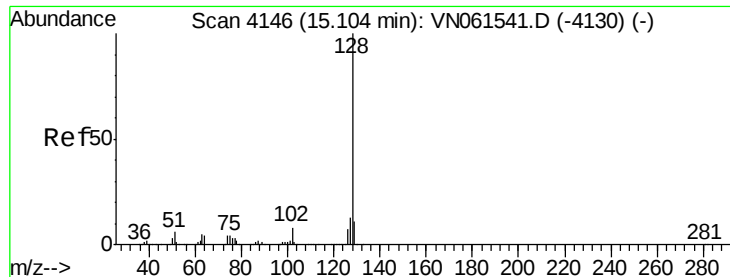
Tot Ion:180 Resp: 2496
 Ion Ratio Lower Upper
 180 100
 182 80.8 47.8 143.3
 145 26.9 15.5 46.5



#94
 Hexachlorobutadiene
 Concen: 0.631 ug/l
 RT: 14.98 min Scan# 4109
 Delta R.T. -0.00 min
 Lab File: VN061745.D
 Acq: 11 Jun 2020 14:30

Tgt Ion:225 Resp: 958
 Ion Ratio Lower Upper
 225 100
 223 64.2 31.9 95.5
 227 59.2 31.9 95.9

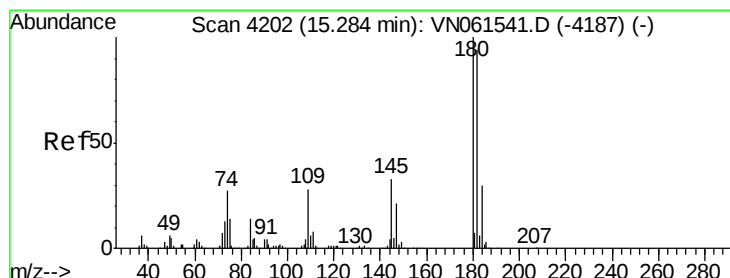
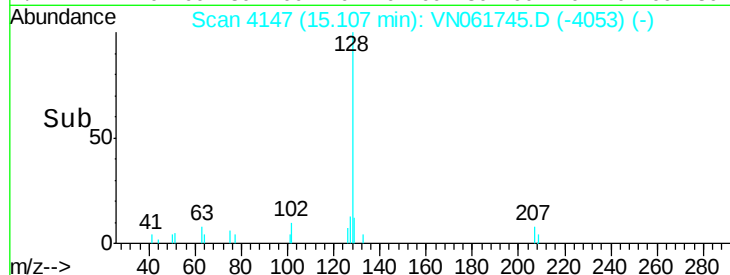
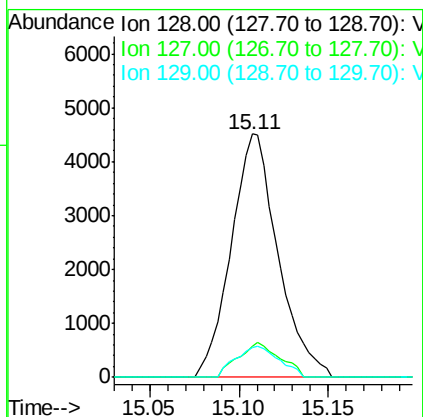
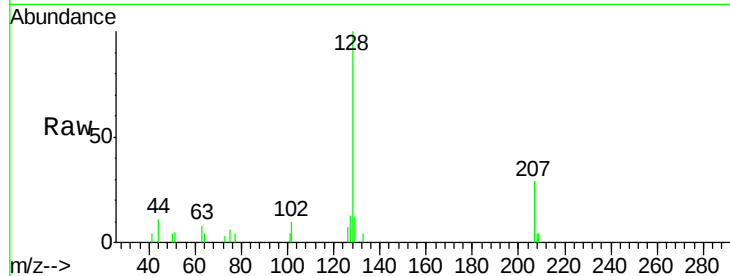




#95
Naphthalene
Concen: 0.759 ug/l
RT: 15.11 min Scan# 4147
Delta R.T. 0.00 min
Lab File: VN061745.D
Acq: 11 Jun 2020 14:30

Instrument :
MSVOA_N
ClientSampleId :
TB-20200608

Tot Ion:128 Resp: 8233
Ion Ratio Lower Upper
128 100
127 12.6 10.0 15.0
129 11.8 8.5 12.7



#96
1,2,3-Trichlorobenzene
Concen: 0.762 ug/l
RT: 15.29 min Scan# 4203
Delta R.T. 0.00 min
Lab File: VN061745.D
Acq: 11 Jun 2020 14:30

Tgt Ion:180 Resp: 2669
Ion Ratio Lower Upper
180 100
182 94.3 47.1 141.3
145 27.9 16.3 48.9

