

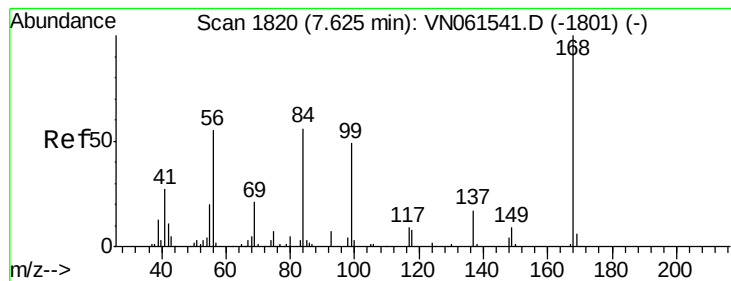
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061120\
 Data File : VN061754.D
 Acq On : 11 Jun 2020 18:00
 Operator : JC/MD
 Sample : L2988-21
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE131D2-20200609

Quant Time: Jun 12 05:47:03 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	283992	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	473180	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	469771	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	206064	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	157044	46.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.82%	
35) Dibromofluoromethane	7.55	113	131502	54.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.56%	
50) Toluene-d8	10.06	98	574412	51.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.28%	
62) 4-Bromofluorobenzene	12.38	95	196306	48.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.74%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.83	85	1224	1.513	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	3.72	101	611424	225.103	ug/l	97
12) 1,1-Dichloroethene	3.70	96	6163	2.124	ug/l #	79
16) Acetone	3.79	43	399	Below Cal	#	41
27) cis-1,2-Dichloroethene	6.78	96	17773	4.796	ug/l	86
30) Chloroform	7.33	83	2343	0.399	ug/l	93
31) Cyclohexane	7.63	56	4932	1.034	ug/l #	7
36) 1,1-Dichloropropene	7.62	75	19371	4.624	ug/l #	45
38) Carbon Tetrachloride	7.73	117	1032	0.255	ug/l #	56
39) Methylcyclohexane	8.80	83	4445	0.861	ug/l #	1
42) 1,2-Dichloroethane	8.08	62	1365	0.315	ug/l #	72
44) Trichloroethene	8.80	130	409512	103.099	ug/l	94
49) 1,4-Dioxane	9.17	88	1638	38.717	ug/l #	81
51) 4-Methyl-2-Pentanone	10.06	43	2091	0.611	ug/l #	1
60) Dibromochloromethane	10.60	129	38724	10.135	ug/l #	11
64) Tetrachloroethene	10.60	164	43705	9.883	ug/l	97
71) Bromoform	12.38	173	1689	0.603	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	95537	25.497	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	95537	65.202	ug/l #	15

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.00 min

Lab File: VN061754.D

Acq: 11 Jun 2020 18:00

Instrument :

MSVOA_N

ClientSampleId :

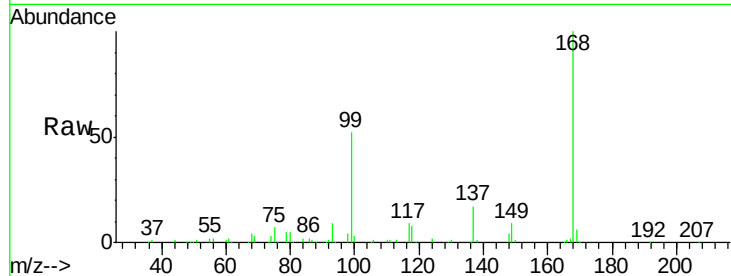
RE131D2-20200609

Tot Ion:168 Resp: 283992

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): VNO

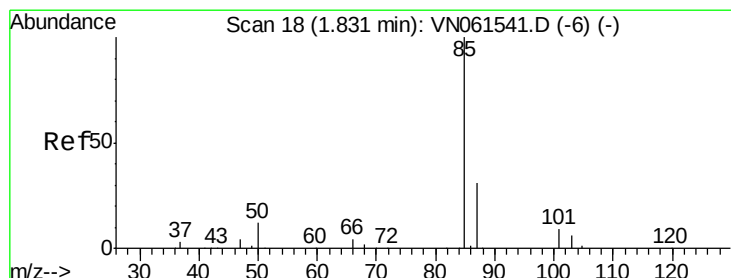
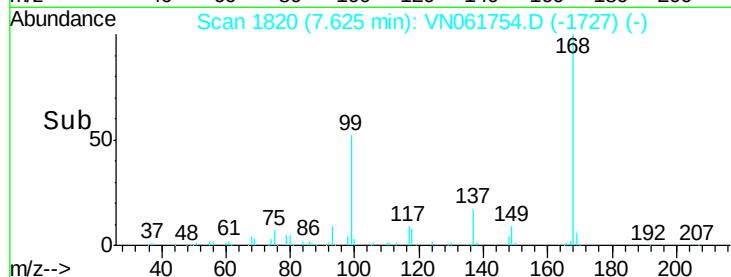
7.63

100000

50000

0

Time--> 7.50 7.60 7.70



#2

Dichlorodifluoromethane

Concen: 1.513 ug/l

RT: 1.83 min Scan# 18

Delta R.T. 0.00 min

Lab File: VN061754.D

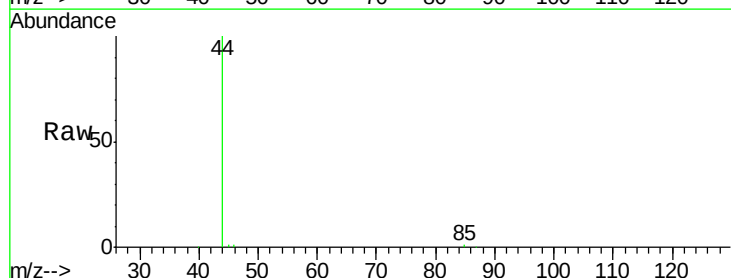
Acq: 11 Jun 2020 18:00

Tgt Ion: 85 Resp: 1224

Ion Ratio Lower Upper

85 100

87 31.2 15.6 46.8



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.83

1000

800

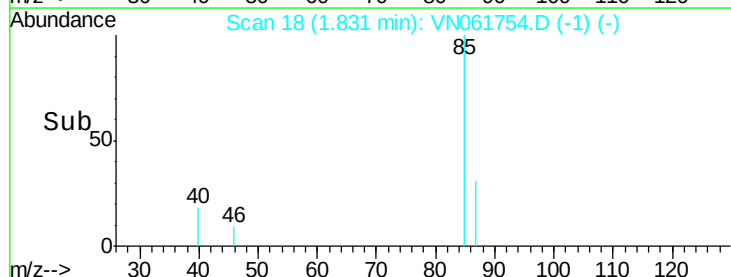
600

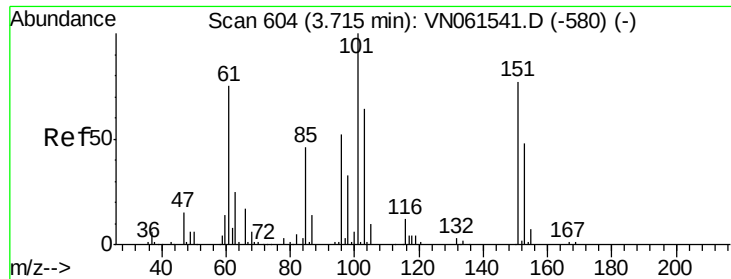
400

200

0

Time--> 1.80 1.82 1.84 1.86





#9

1,1,2-Trichlorotrifluoroethane

Concen: 225.103 ug/l

RT: 3.72 min Scan# 605

Delta R.T. 0.00 min

Lab File: VN061754.D

Acq: 11 Jun 2020 18:00

Instrument :

MSVOA_N

ClientSampleId :

RE131D2-20200609

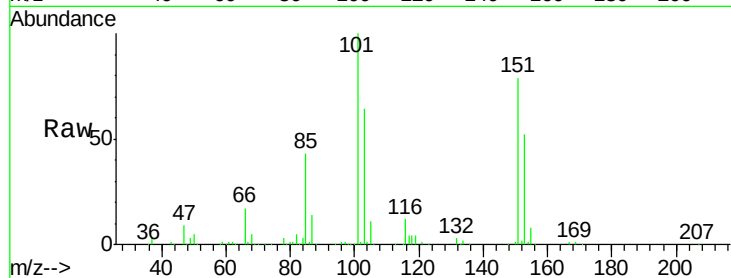
Tot Ion:101 Resp: 611424

Ion Ratio Lower Upper

101 100

85 43.4 35.2 52.8

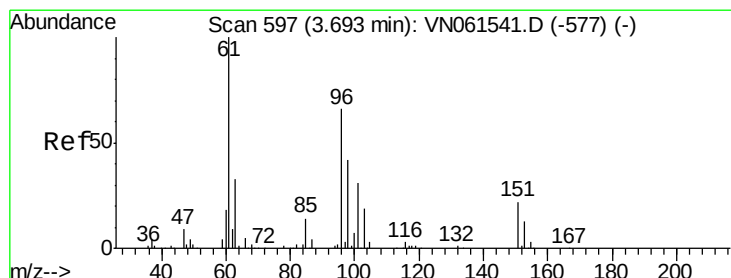
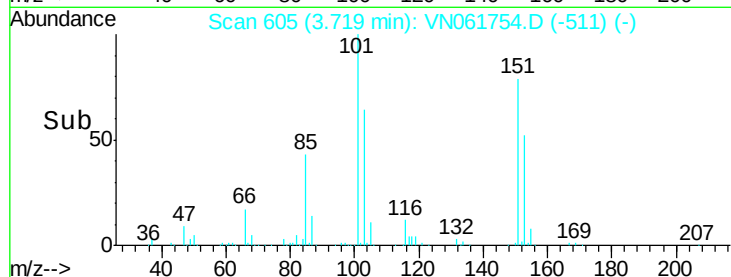
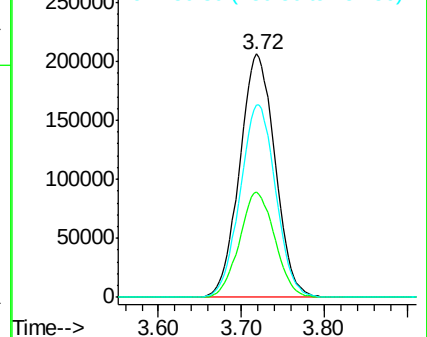
151 79.5 61.0 91.6



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VNO

Ion 150.80 (150.50 to 151.50): V



#12

1,1-Dichloroethene

Concen: 2.124 ug/l

RT: 3.70 min Scan# 599

Delta R.T. 0.01 min

Lab File: VN061754.D

Acq: 11 Jun 2020 18:00

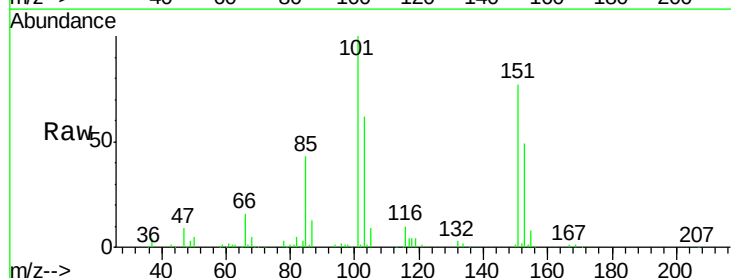
Tgt Ion: 96 Resp: 6163

Ion Ratio Lower Upper

96 100

61 115.7 120.5 180.7#

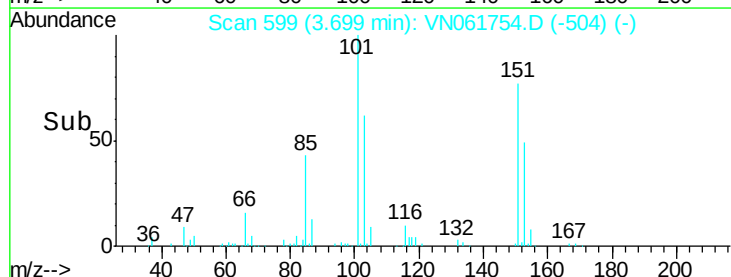
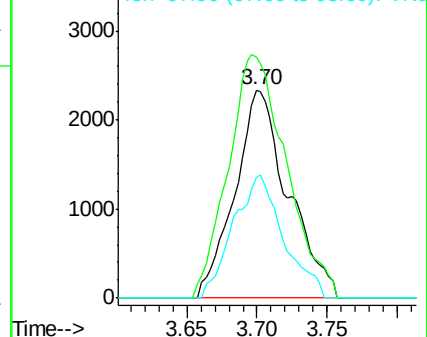
98 58.3 50.8 76.2

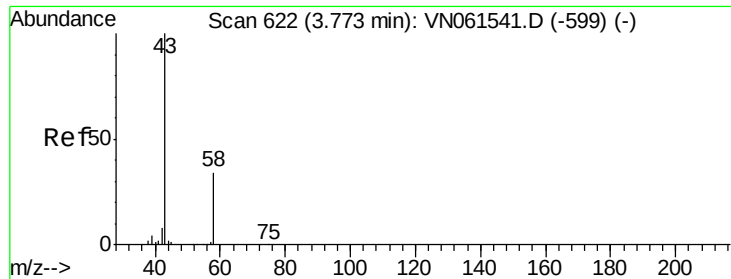


Abundance Ion 95.90 (95.60 to 96.60): VNO

Ion 60.90 (60.60 to 61.60): VNO

Ion 97.90 (97.60 to 98.60): VNO





#16

Acetone

Concen: Below Cal

RT: 3.79 min Scan# 628

Delta R.T. 0.02 min

Lab File: VN061754.D

Acq: 11 Jun 2020 18:00

Instrument :

MSVOA_N

ClientSampleId :

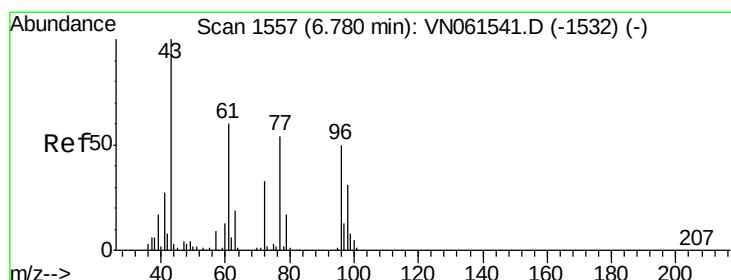
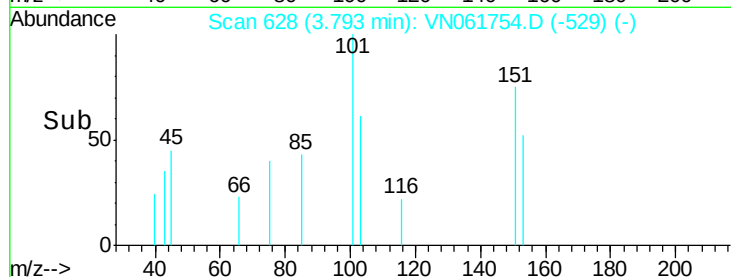
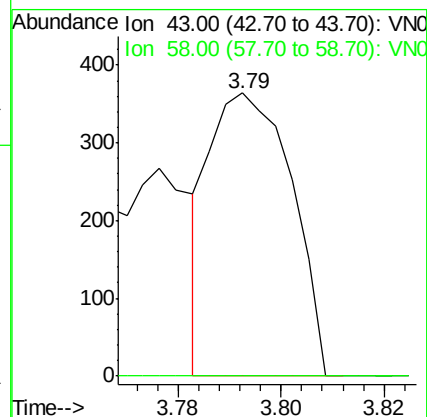
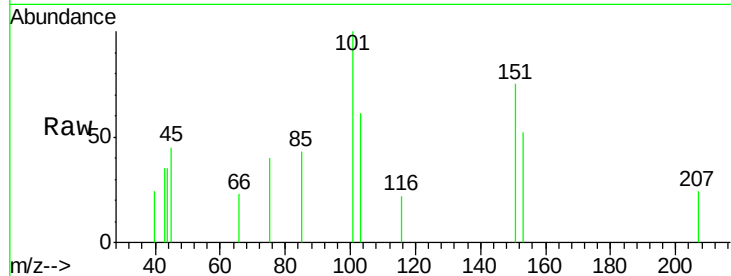
RE131D2-20200609

Tot Ion: 43 Resp: 399

Ion Ratio Lower Upper

43 100

58 0.0 27.2 40.8#



#27

cis-1,2-Dichloroethene

Concen: 4.796 ug/l

RT: 6.78 min Scan# 1556

Delta R.T. -0.00 min

Lab File: VN061754.D

Acq: 11 Jun 2020 18:00

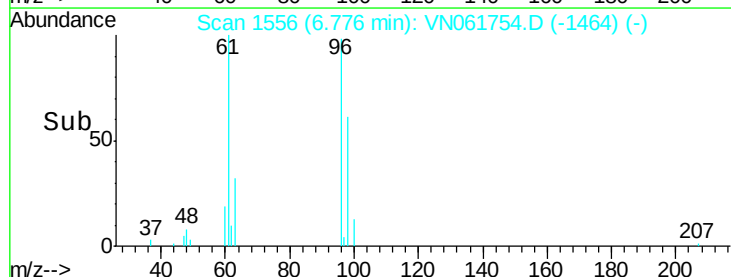
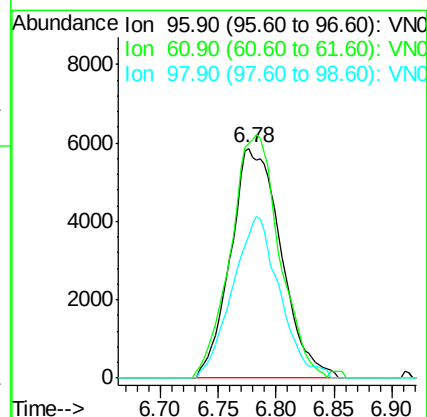
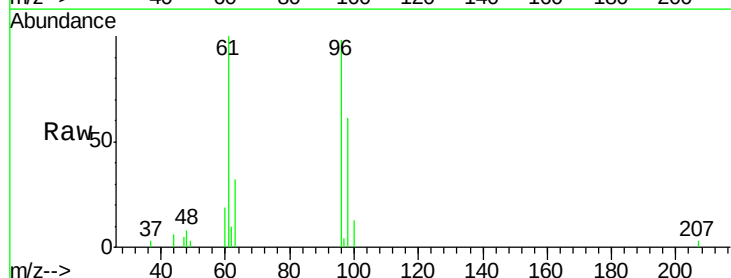
Tgt Ion: 96 Resp: 17773

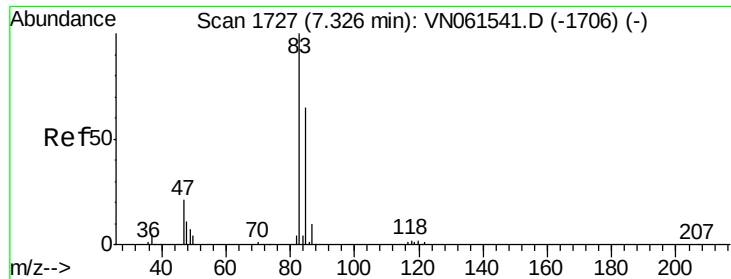
Ion Ratio Lower Upper

96 100

61 102.2 0.0 252.2

98 65.6 0.0 129.2

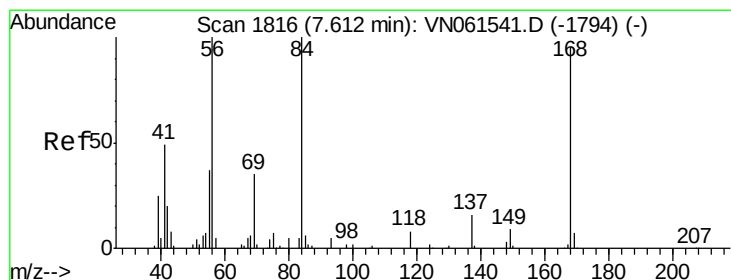
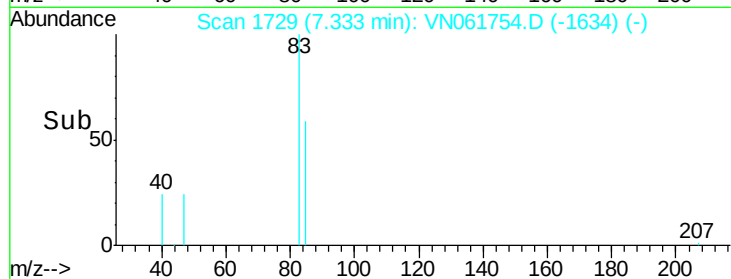
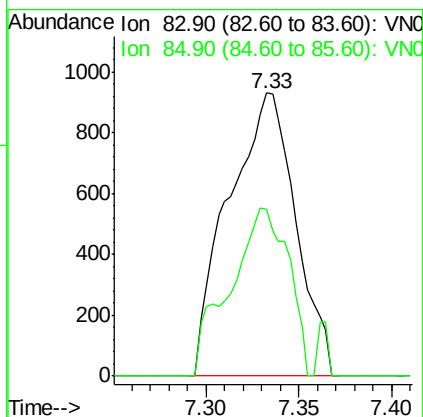
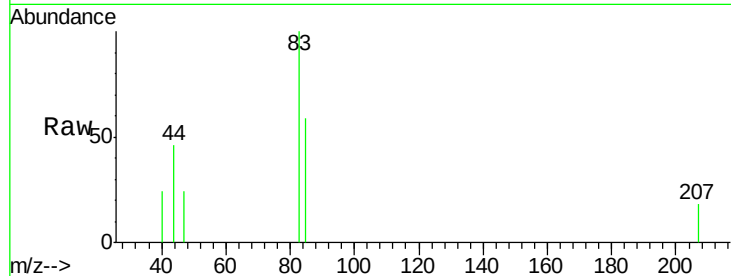




#30
Chloroform
Concen: 0.399 ug/l
RT: 7.33 min Scan# 1729
Delta R.T. 0.01 min
Lab File: VN061754.D
Acq: 11 Jun 2020 18:00

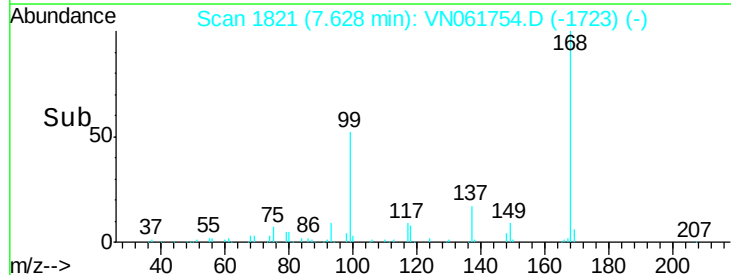
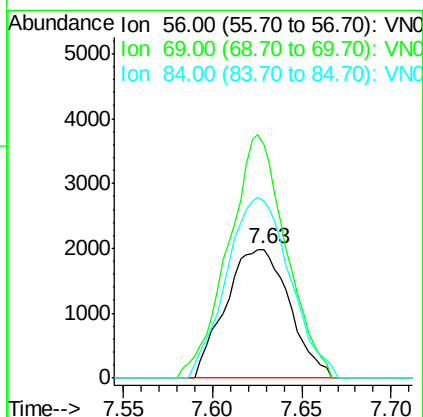
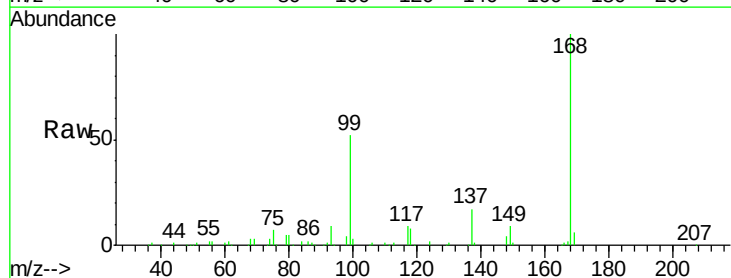
Instrument :
MSVOA_N
ClientSampleId :
RE131D2-20200609

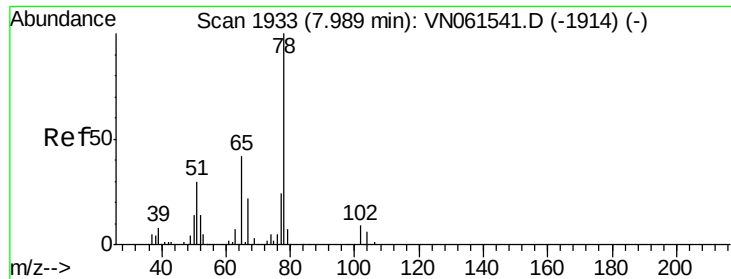
Tot Ion: 83 Resp: 2343
Ion Ratio Lower Upper
83 100
85 58.8 51.7 77.5



#31
Cyclohexane
Concen: 1.034 ug/l
RT: 7.63 min Scan# 1821
Delta R.T. 0.02 min
Lab File: VN061754.D
Acq: 11 Jun 2020 18:00

Tgt Ion: 56 Resp: 4932
Ion Ratio Lower Upper
56 100
69 181.3 27.8 41.8#
84 137.7 79.9 119.9#

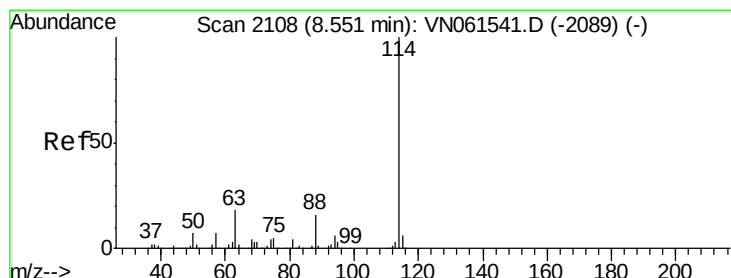
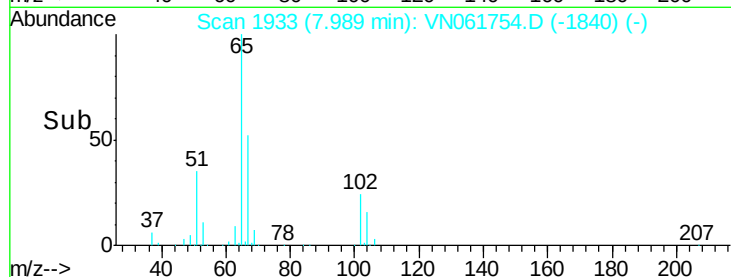
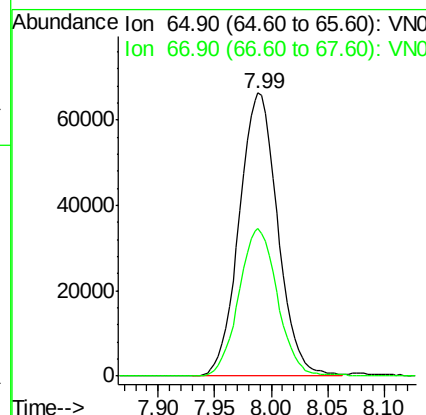
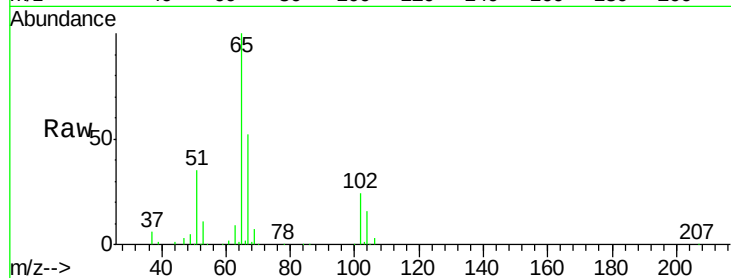




#33
 1,2-Dichloroethane-d4
 Concen: 46.413 ug/l
 RT: 7.99 min Scan# 1933
 Delta R.T. -0.00 min
 Lab File: VN061754.D
 Acq: 11 Jun 2020 18:00

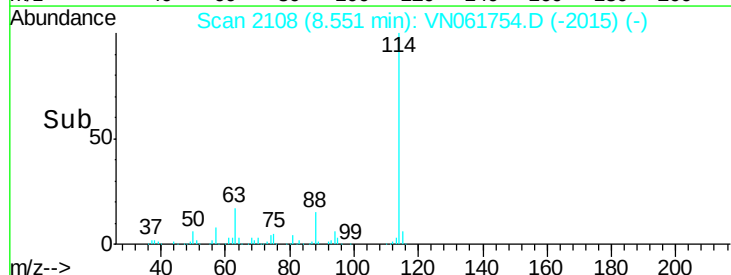
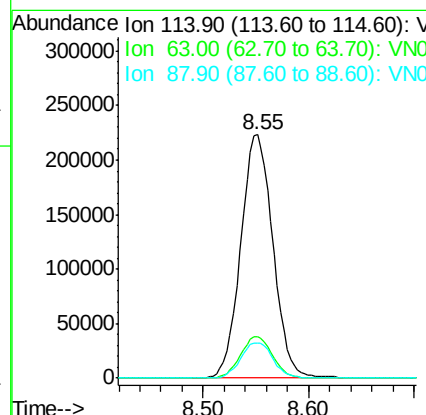
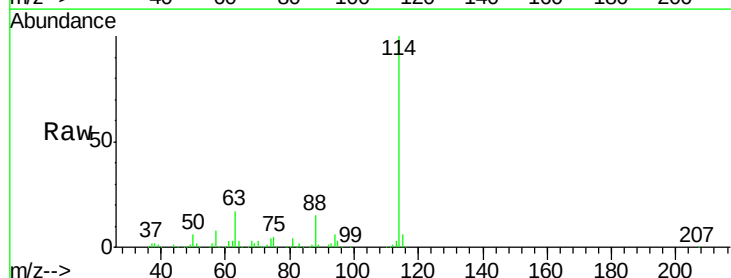
Instrument :
 MSVOA_N
 ClientSampleId :
 RE131D2-20200609

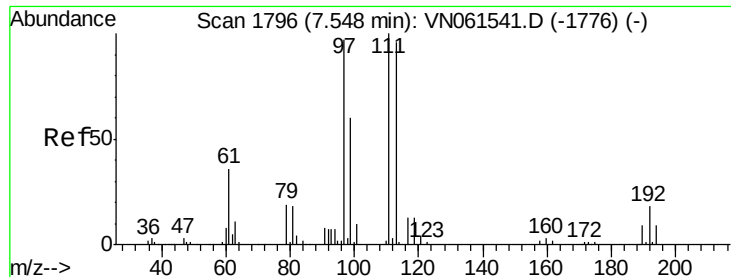
Tot Ion: 65 Resp: 157044
 Ion Ratio Lower Upper
 65 100
 67 52.4 0.0 104.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. -0.00 min
 Lab File: VN061754.D
 Acq: 11 Jun 2020 18:00

Tgt Ion: 114 Resp: 473180
 Ion Ratio Lower Upper
 114 100
 63 17.1 0.0 35.8
 88 14.5 0.0 31.0

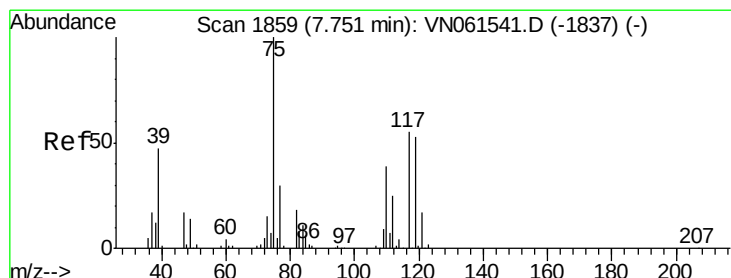
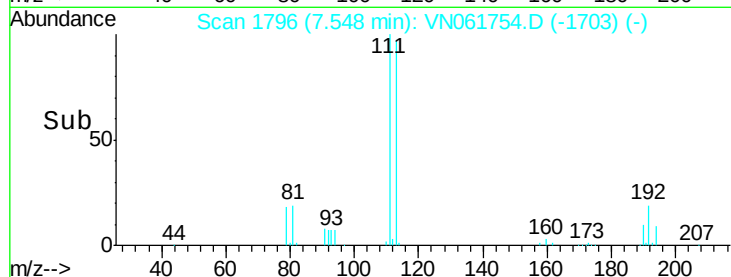
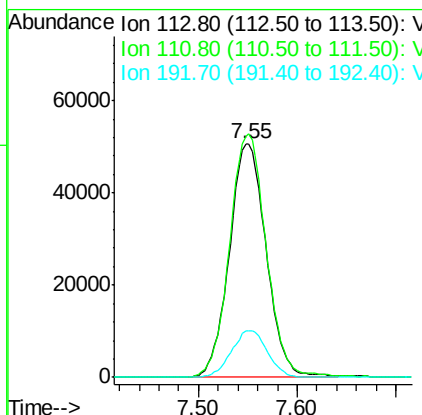
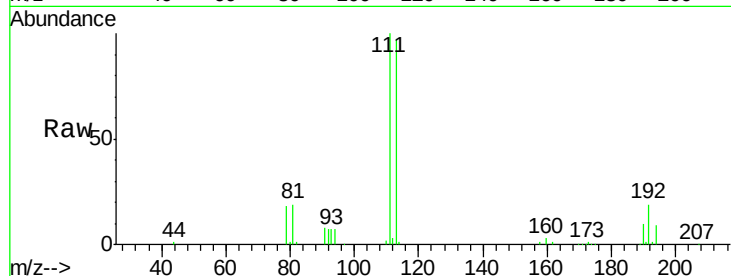




#35
 Dibromofluoromethane
 Concen: 54.784 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. 0.00 min
 Lab File: VN061754.D
 Acq: 11 Jun 2020 18:00

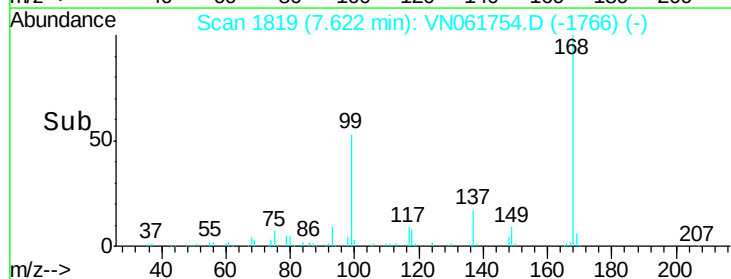
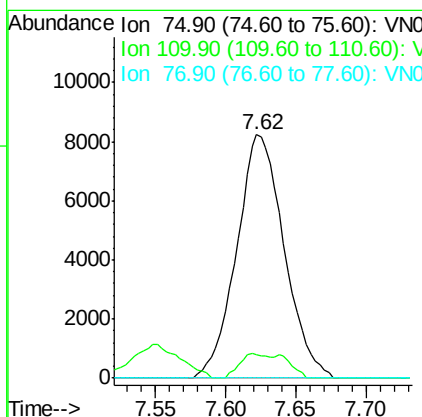
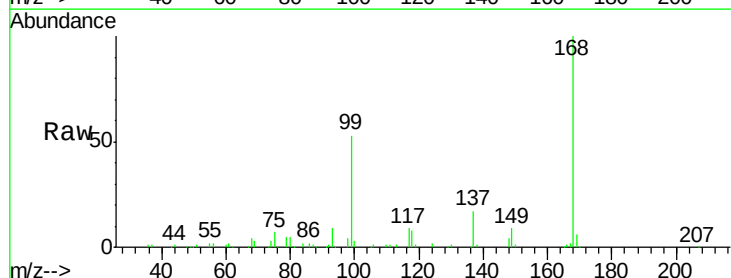
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 ClientSampleId :
 RE131D2-20200609

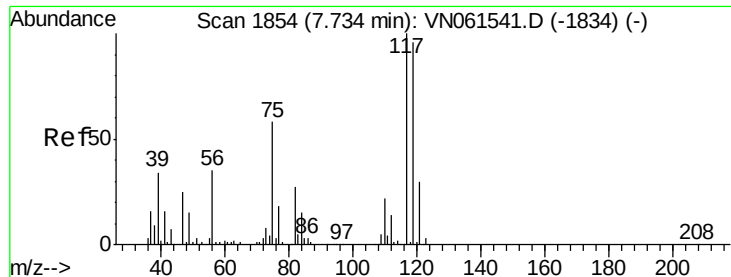
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.6	83.4	125.0
192	19.7	15.4	23.2



#36
 1,1-Dichloropropene
 Concen: 4.624 ug/l
 RT: 7.62 min Scan# 1819
 Delta R.T. -0.13 min
 Lab File: VN061754.D
 Acq: 11 Jun 2020 18:00

Tgt Ion	Ratio	Lower	Upper
75	100		
110	6.1	19.5	58.5#
77	0.0	24.7	37.1#

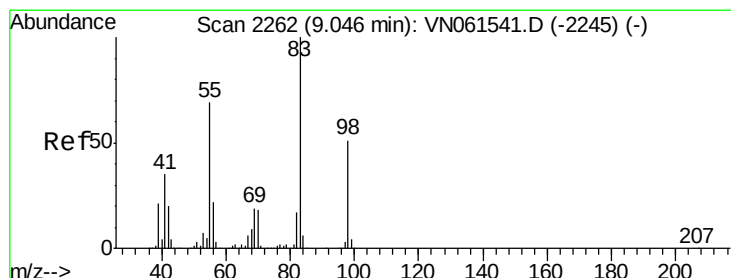
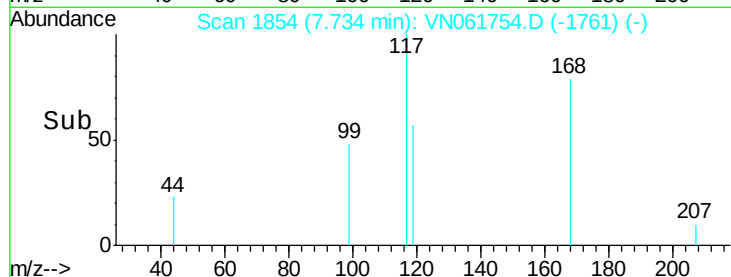
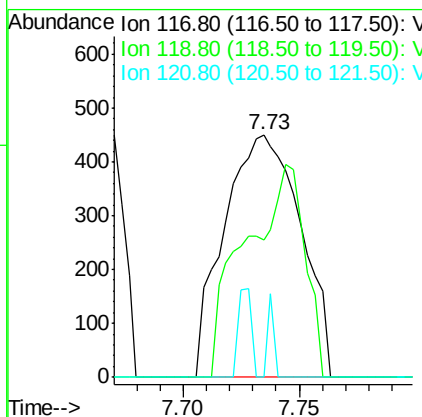
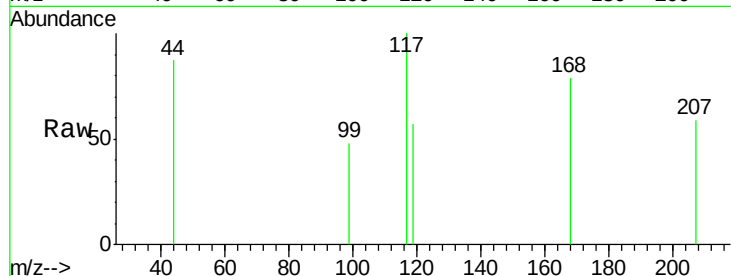




#38
Carbon Tetrachloride
Concen: 0.255 ug/l
RT: 7.73 min Scan# 1854
Delta R.T. 0.00 min
Lab File: VN061754.D
Acq: 11 Jun 2020 18:00

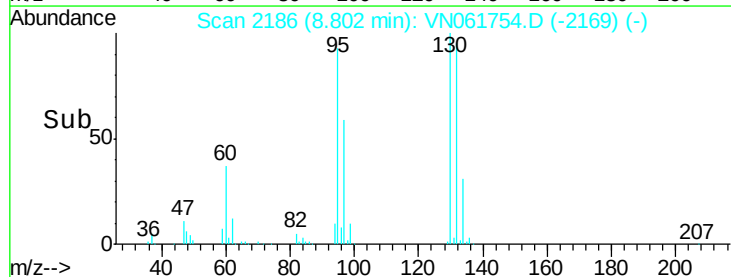
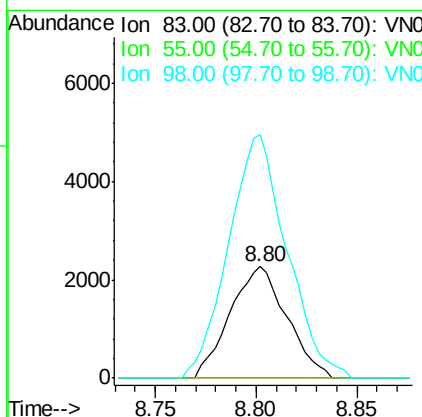
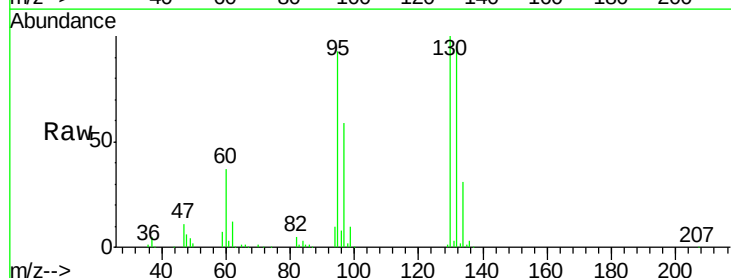
Instrument :
MSVOA_N
ClientSampleId :
RE131D2-20200609

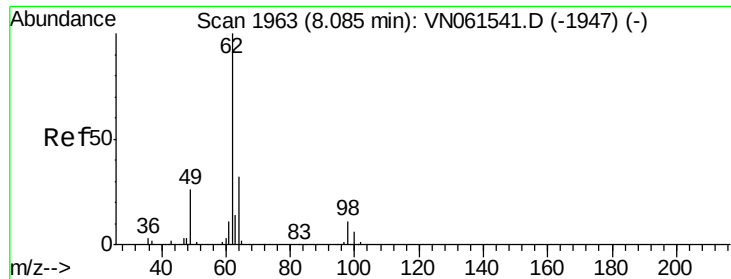
Tot Ion:117 Resp: 1032
Ion Ratio Lower Upper
117 100
119 56.5 76.5 114.7#
121 0.0 24.1 36.1#



#39
Methylcyclohexane
Concen: 0.861 ug/l
RT: 8.80 min Scan# 2186
Delta R.T. -0.24 min
Lab File: VN061754.D
Acq: 11 Jun 2020 18:00

Tgt Ion: 83 Resp: 4445
Ion Ratio Lower Upper
83 100
55 0.0 54.9 82.3#
98 210.4 41.0 61.4#

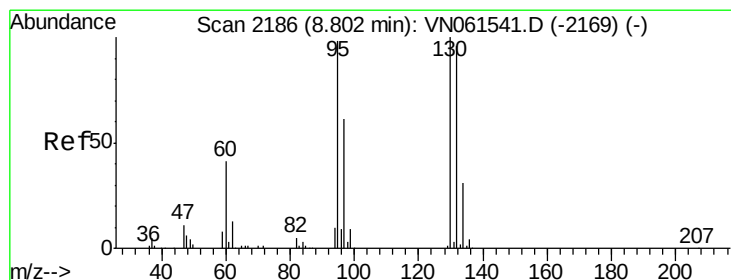
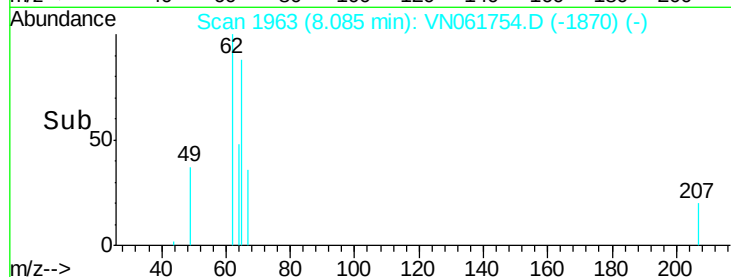
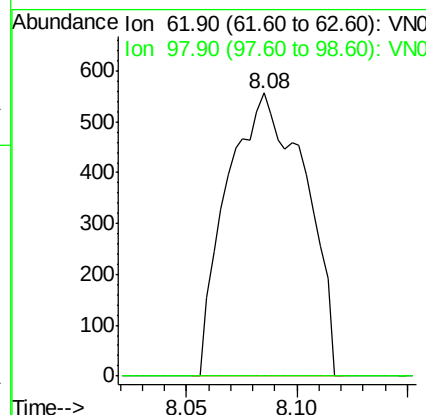
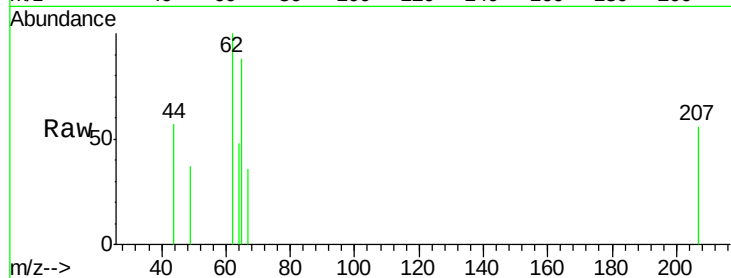




#42
 1,2-Dichloroethane
 Concen: 0.315 ug/l
 RT: 8.08 min Scan# 1963
 Delta R.T. 0.00 min
 Lab File: VN061754.D
 Acq: 11 Jun 2020 18:00

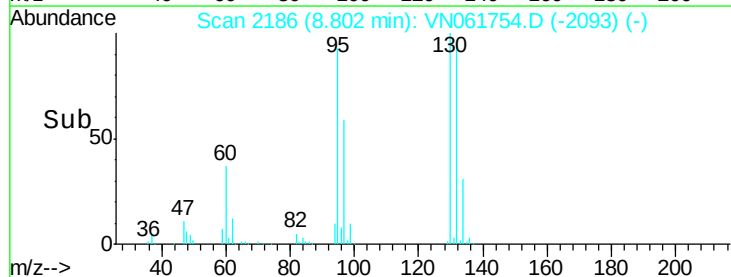
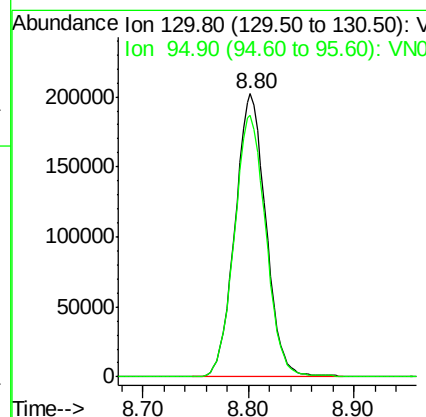
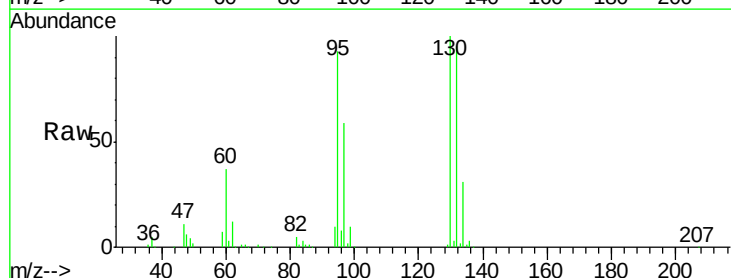
Instrument :
 MSVOA_N
 ClientSampleId :
 RE131D2-20200609

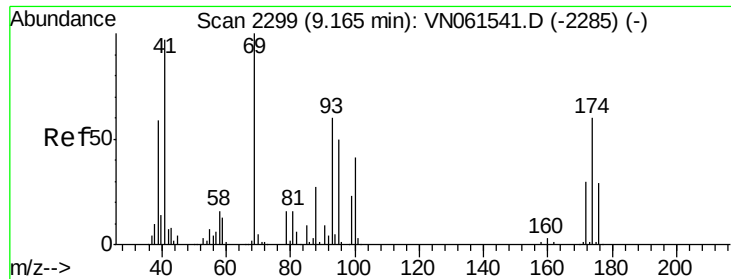
Tot Ion: 62 Resp: 1365
 Ion Ratio Lower Upper
 62 100
 98 0.0 0.0 21.4



#44
 Trichloroethene
 Concen: 103.099 ug/l
 RT: 8.80 min Scan# 2186
 Delta R.T. 0.00 min
 Lab File: VN061754.D
 Acq: 11 Jun 2020 18:00

Tgt Ion:130 Resp: 409512
 Ion Ratio Lower Upper
 130 100
 95 92.5 0.0 196.6

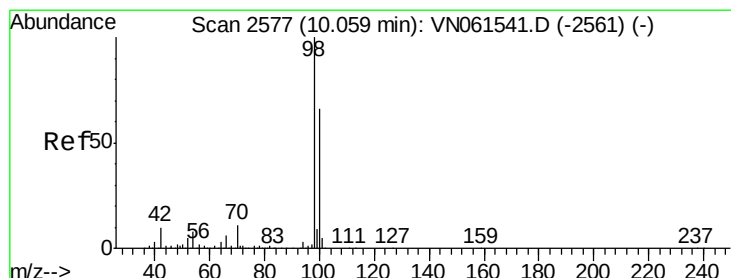
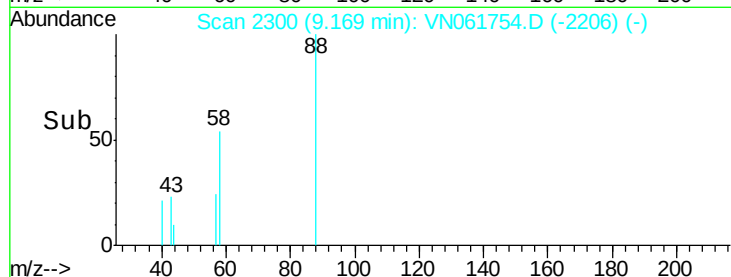
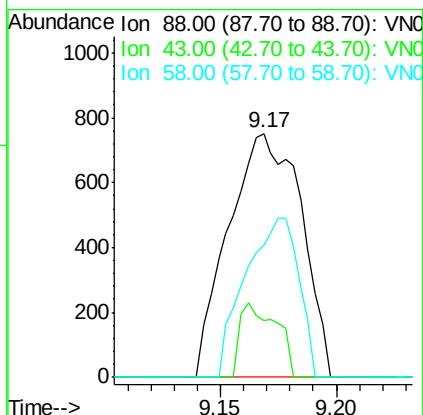
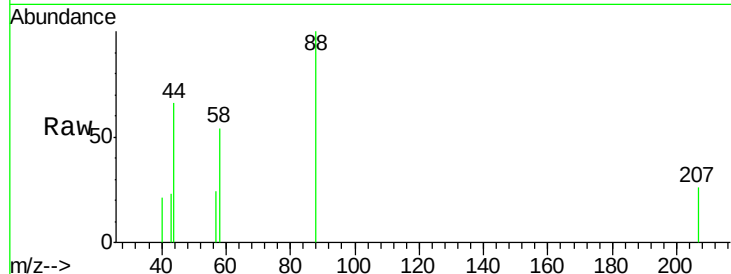




#49
 1,4-Dioxane
 Concen: 38.717 ug/l
 RT: 9.17 min Scan# 2300
 Delta R.T. 0.00 min
 Lab File: VN061754.D
 Acq: 11 Jun 2020 18:00

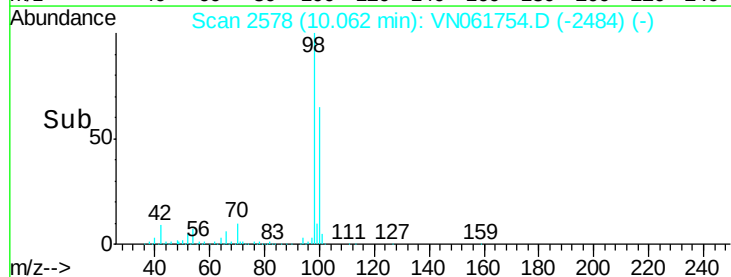
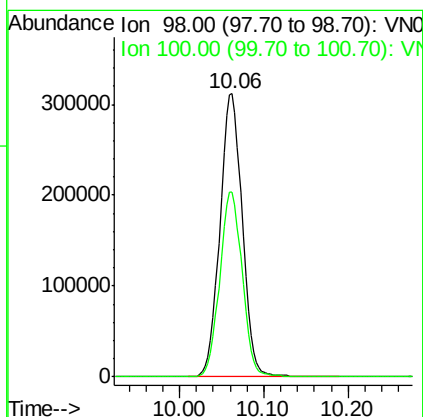
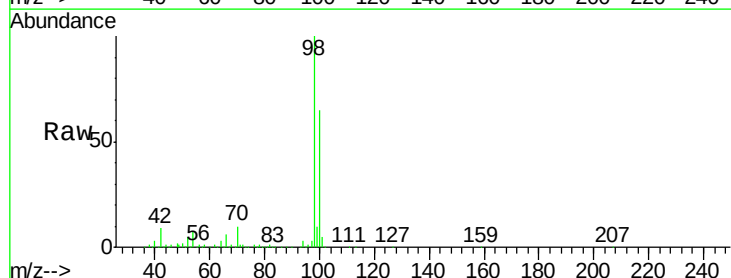
Instrument :
 MSVOA_N
 ClientSampleId :
 RE131D2-20200609

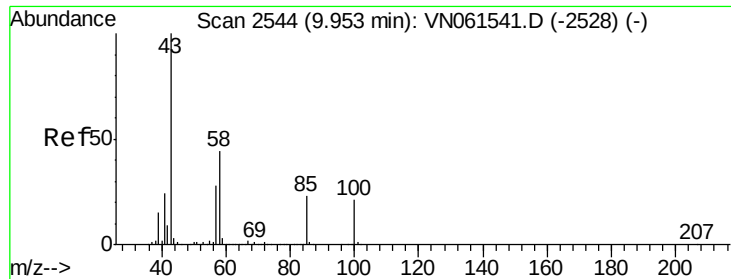
Tot Ion: 88 Resp: 1638
 Ion Ratio Lower Upper
 88 100
 43 15.2 23.1 34.7#
 58 47.9 48.3 72.5#



#50
 Toluene-d8
 Concen: 51.639 ug/l
 RT: 10.06 min Scan# 2578
 Delta R.T. 0.00 min
 Lab File: VN061754.D
 Acq: 11 Jun 2020 18:00

Tgt Ion: 98 Resp: 574412
 Ion Ratio Lower Upper
 98 100
 100 65.7 52.8 79.2





#51

4-Methyl-2-Pentanone

Concen: 0.611 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.11 min

Lab File: VN061754.D

Acq: 11 Jun 2020 18:00

Instrument :

MSVOA_N

ClientSampleId :

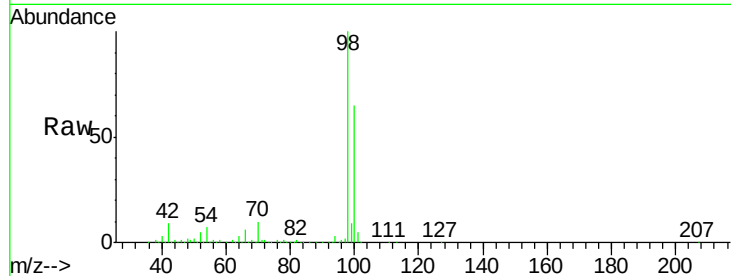
RE131D2-20200609

Tot Ion: 43 Resp: 2091

Ion Ratio Lower Upper

43 100

58 189.1 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) (-)

10.06

2500

2000

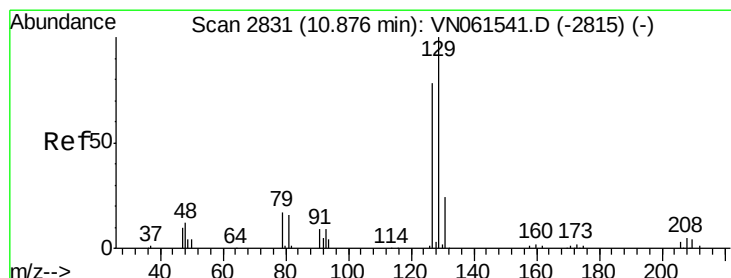
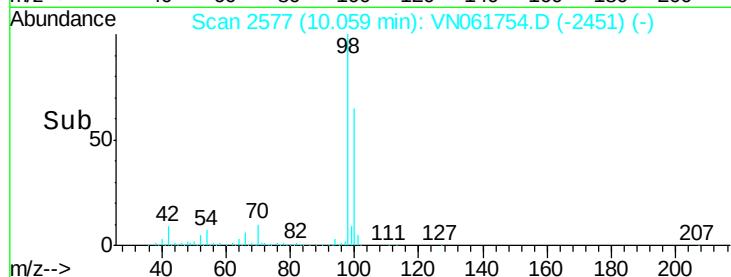
1500

1000

500

0

Time--> 10.00 10.05 10.10



#60

Dibromochloromethane

Concen: 10.135 ug/l

RT: 10.60 min Scan# 2746

Delta R.T. -0.27 min

Lab File: VN061754.D

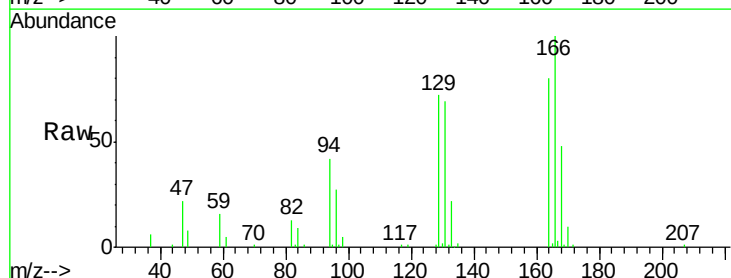
Acq: 11 Jun 2020 18:00

Tgt Ion: 129 Resp: 38724

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) (-)

10.60

25000

20000

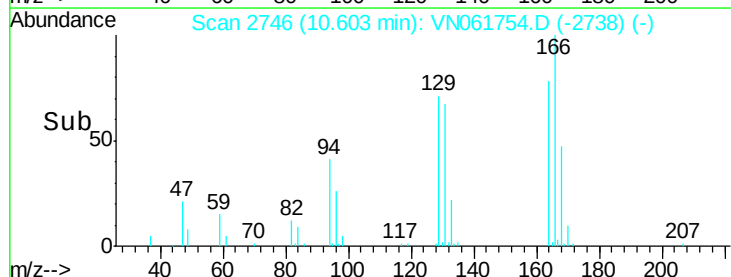
15000

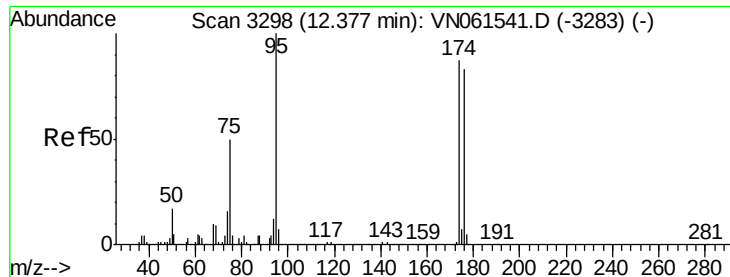
10000

5000

0

Time--> 10.55 10.60 10.65

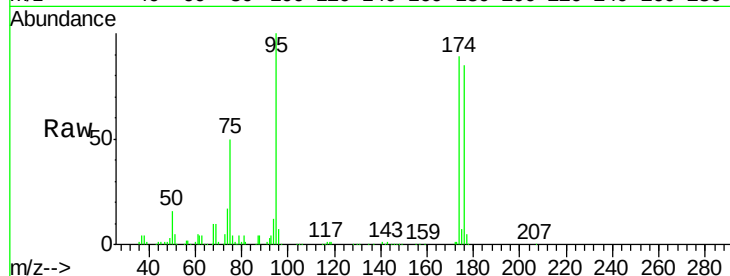




#62
4-Bromofluorobenzene
Concen: 48.372 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.00 min
Lab File: VN061754.D
Acq: 11 Jun 2020 18:00

Instrument :
MSVOA_N
ClientSampleId :
RE131D2-20200609

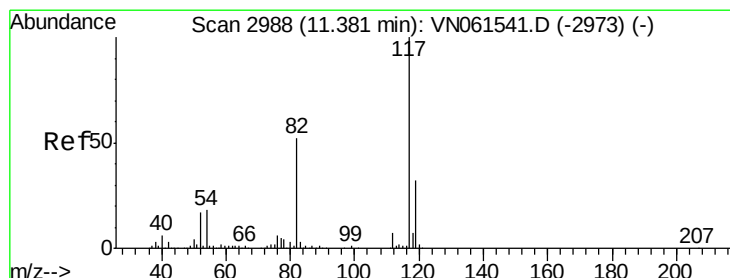
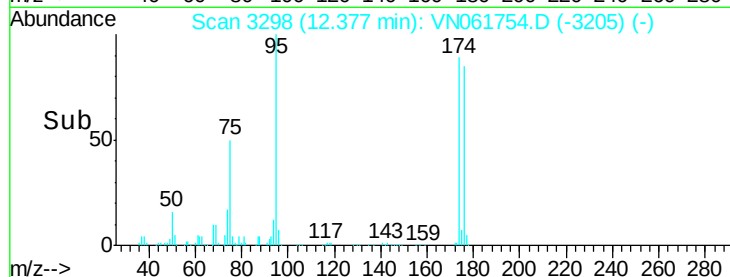
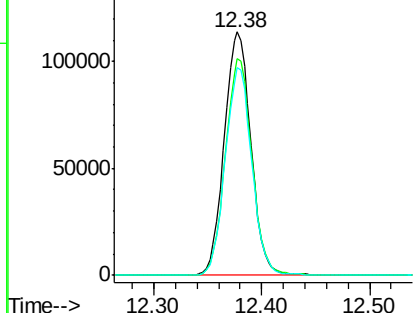
Tot Ion	Ratio	Lower	Upper
95	100		
174	88.4	0.0	172.8
176	84.9	0.0	164.8



Abundance Ion 94.90 (94.60 to 95.60): VN061754.D (-3205) (-)

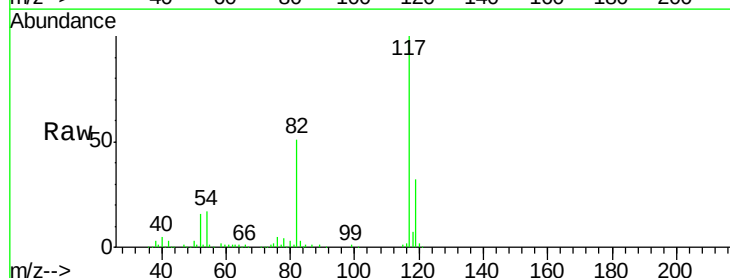
Ion 173.80 (173.50 to 174.50): VN061754.D (-3205) (-)

Ion 175.80 (175.50 to 176.50): VN061754.D (-3205) (-)



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. -0.00 min
Lab File: VN061754.D
Acq: 11 Jun 2020 18:00

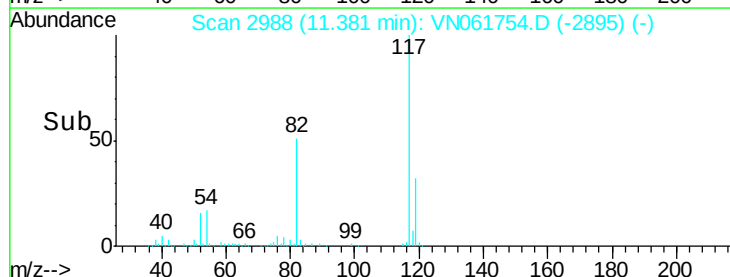
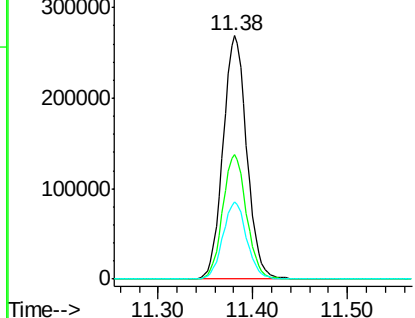
Tgt Ion	Ratio	Lower	Upper
117	100		
82	51.0	41.5	62.3
119	31.8	25.6	38.4

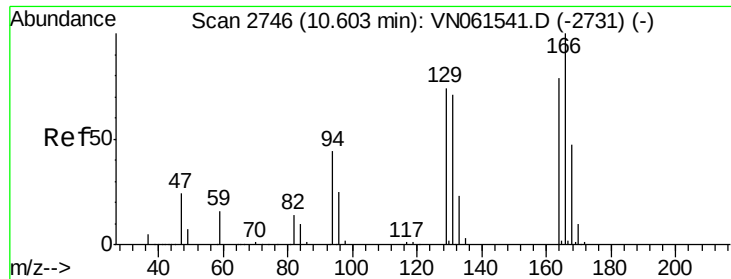


Abundance Ion 116.90 (116.60 to 117.60): VN061754.D (-2895) (-)

Ion 82.00 (81.70 to 82.70): VN061754.D (-2895) (-)

Ion 118.90 (118.60 to 119.60): VN061754.D (-2895) (-)





#64

Tetrachloroethene

Concen: 9.883 ug/l

RT: 10.60 min Scan# 2746

Delta R.T. 0.00 min

Lab File: VN061754.D

Acq: 11 Jun 2020 18:00

Instrument :

MSVOA_N

ClientSampleId :

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Tot Ion:164 Resp: 43705

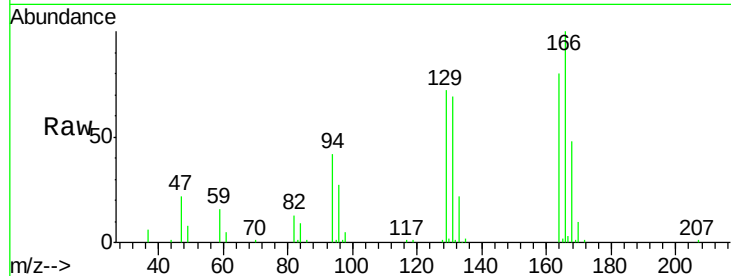
Ion Ratio Lower Upper

164 100

166 125.2 101.5 152.3

129 90.0 74.9 112.3

131 85.8 72.2 108.2

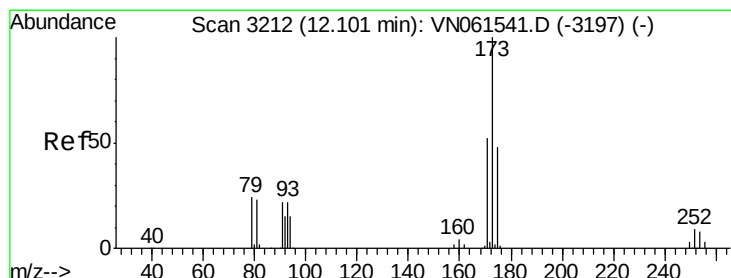
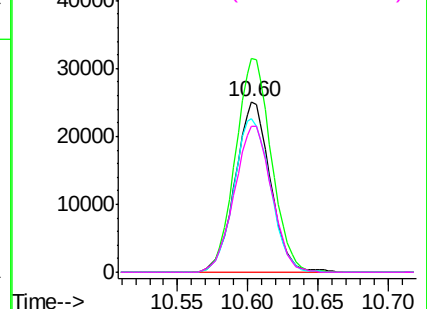
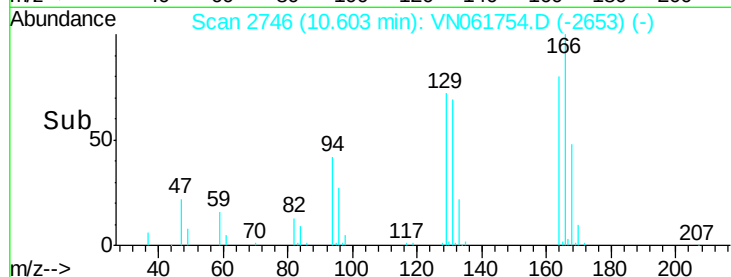


Abundance Ion 163.80 (163.50 to 164.50): V

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: 0.603 ug/l

RT: 12.38 min Scan# 3299

Delta R.T. 0.28 min

Lab File: VN061754.D

Acq: 11 Jun 2020 18:00

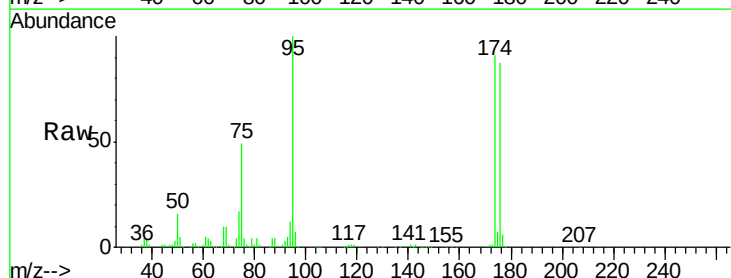
Tgt Ion:173 Resp: 1689

Ion Ratio Lower Upper

173 100

175 622.9 24.4 73.2#

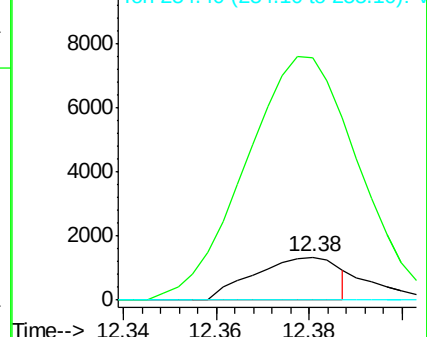
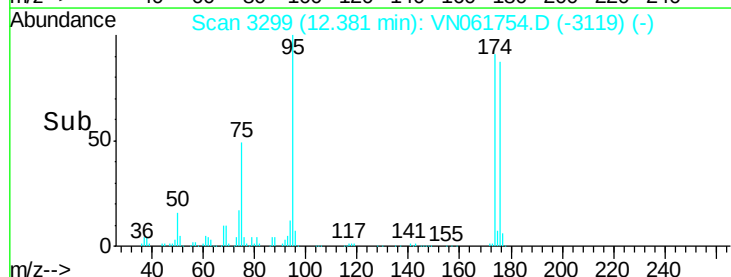
254 0.0 0.0 0.0

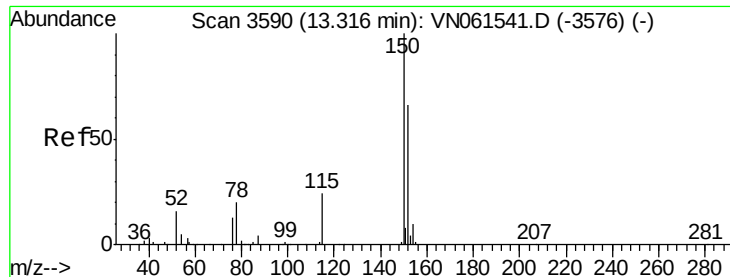


Abundance Ion 172.70 (172.40 to 173.40): V

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: VN061754.D

Acq: 11 Jun 2020 18:00

Instrument :

MSVOA_N

ClientSampleId :

RE131D2-20200609

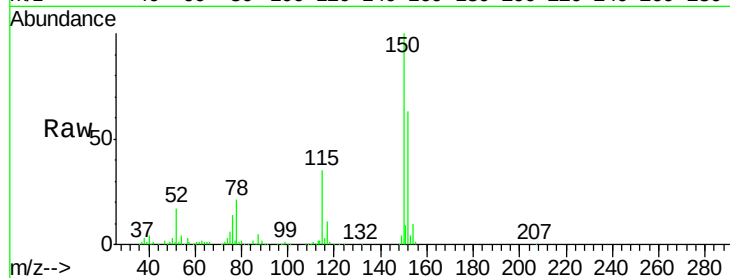
Tot Ion:152 Resp: 206064

Ion Ratio Lower Upper

152 100

115 55.6 28.0 84.0

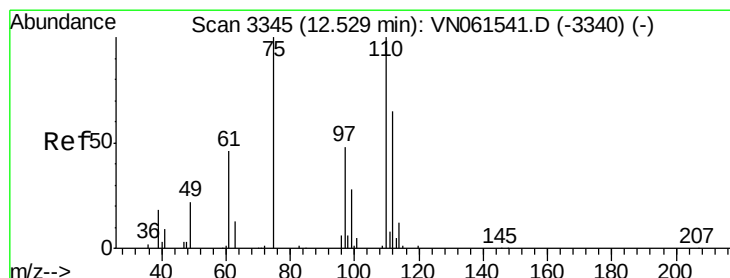
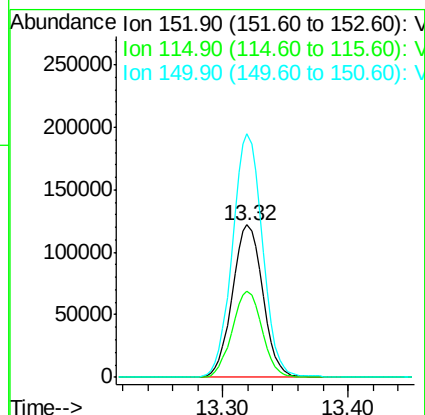
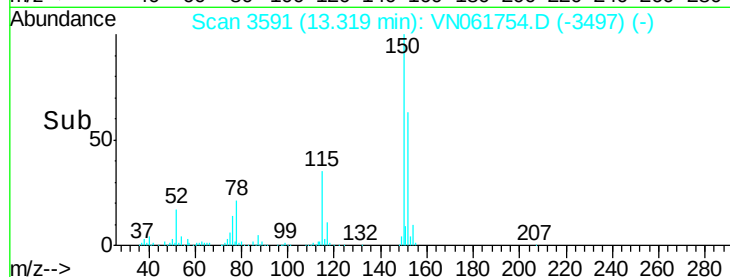
150 157.5 0.0 344.0



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: 25.497 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN061754.D

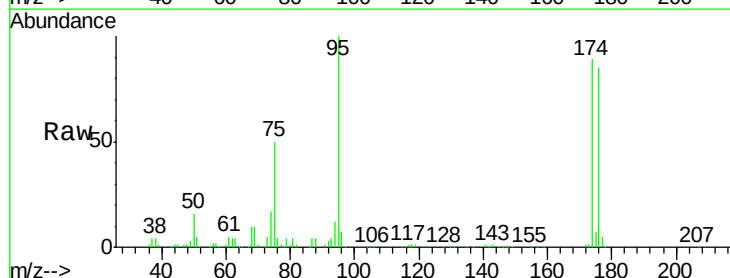
Acq: 11 Jun 2020 18:00

Tgt Ion: 75 Resp: 95537

Ion Ratio Lower Upper

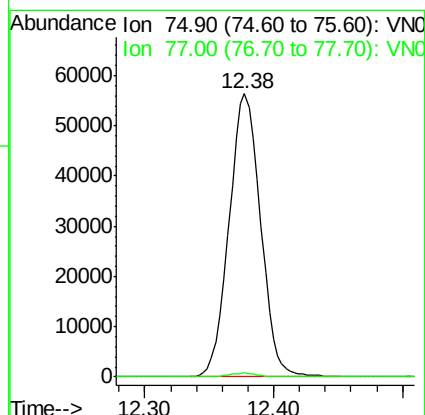
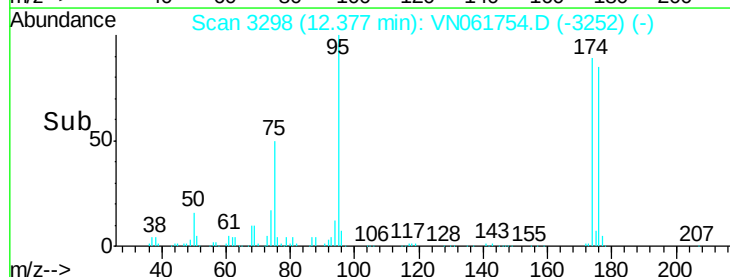
75 100

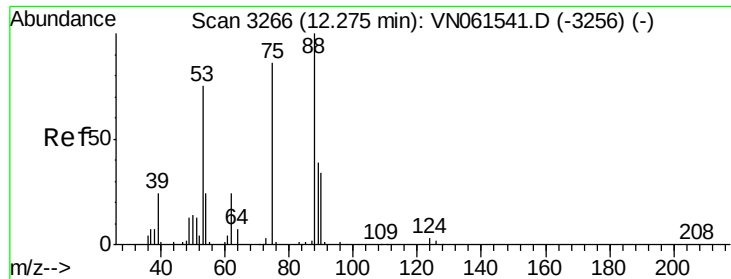
77 1.2 0.0 0.0#



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: 65.202 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN061754.D

Acq: 11 Jun 2020 18:00

Instrument :

MSVOA_N

ClientSampleId :

RE131D2-20200609

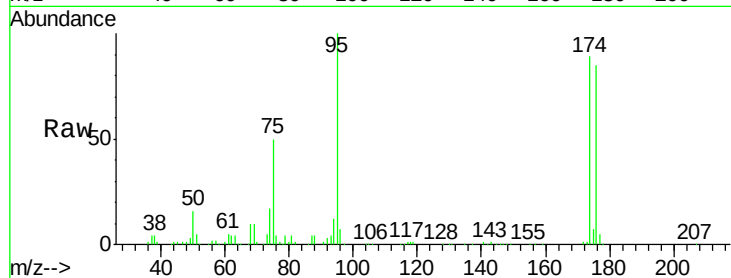
Tot Ion: 75 Resp: 95537

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): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

