

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061120\
 Data File : VN061755.D
 Acq On : 11 Jun 2020 18:24
 Operator : JC/MD
 Sample : L2988-22
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE131D3-20200609

Quant Time: Jun 12 05:47:23 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

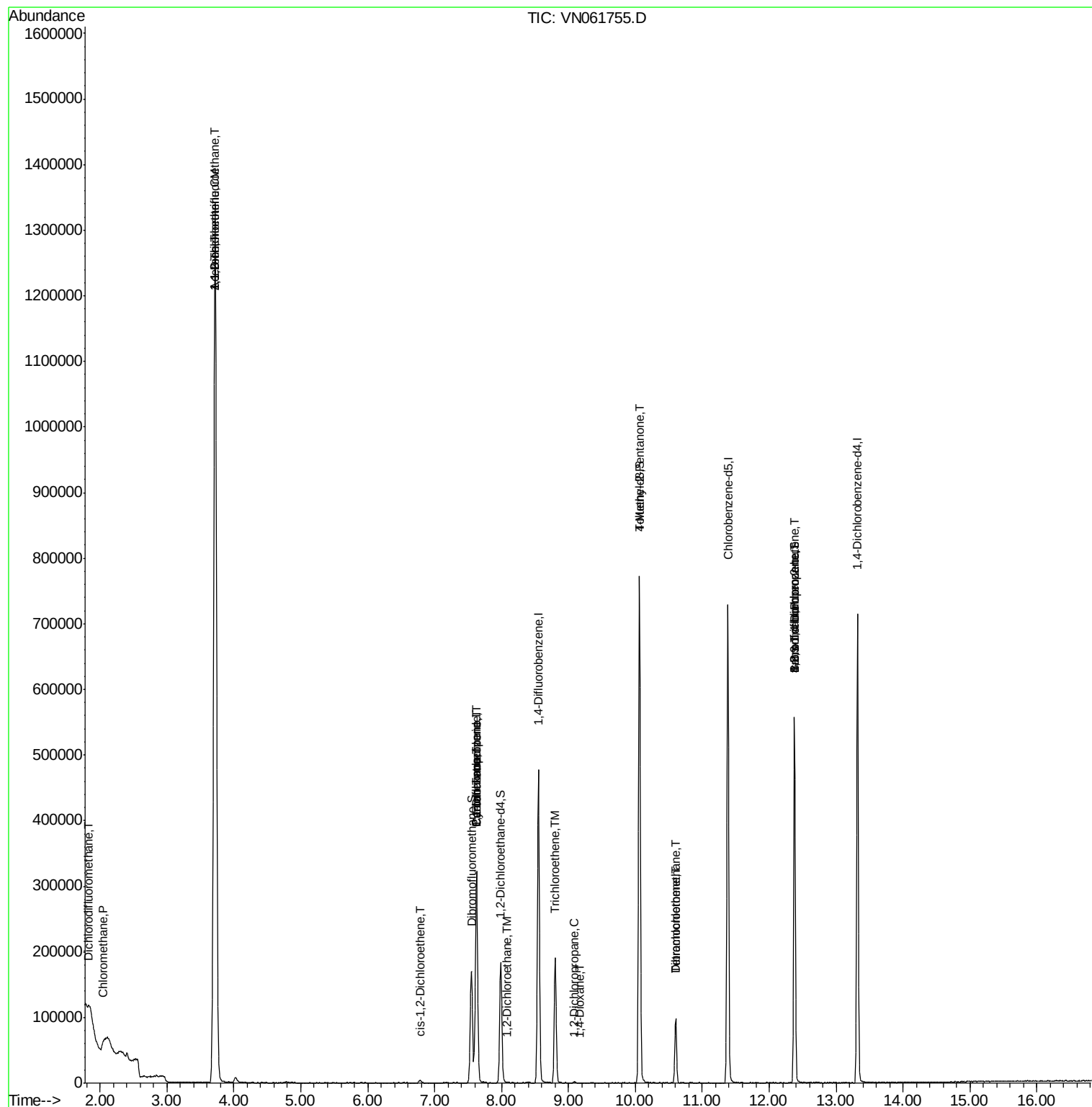
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	272498	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	465006	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	458861	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	204688	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	155942	48.03	ug/l	0.00
Spiked Amount 50.000			Recovery	=	96.06%	
35) Dibromofluoromethane	7.55	113	130814	55.46	ug/l	0.00
Spiked Amount 50.000			Recovery	=	110.92%	
50) Toluene-d8	10.06	98	556214	50.88	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.76%	
62) 4-Bromofluorobenzene	12.38	95	193961	48.63	ug/l	0.00
Spiked Amount 50.000			Recovery	=	97.26%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.83	85	622	1.341	ug/l	74
3) Chloromethane	2.03	50	834	0.251	ug/l #	70
9) 1,1,2-Trichlorotrifluoroet	3.72	101	845207	324.298	ug/l	97
12) 1,1-Dichloroethene	3.71	96	5301	1.904	ug/l #	74
16) Acetone	3.72	43	8354	3.215	ug/l #	77
27) cis-1,2-Dichloroethene	6.77	96	1237	0.348	ug/l #	1
31) Cyclohexane	7.63	56	4932	1.078	ug/l #	8
36) 1,1-Dichloropropene	7.63	75	18766	4.559	ug/l #	49
38) Carbon Tetrachloride	7.63	117	25797	6.497	ug/l #	16
42) 1,2-Dichloroethane	8.08	62	891	0.210	ug/l #	72
44) Trichloroethene	8.80	130	73450	18.817	ug/l	96
45) 1,2-Dichloropropane	9.08	63	989	0.328	ug/l #	63
49) 1,4-Dioxane	9.16	88	204	4.907	ug/l #	29
51) 4-Methyl-2-Pentanone	10.06	43	2201	0.655	ug/l #	1
60) Dibromochloromethane	10.60	129	22126	5.893	ug/l #	11
64) Tetrachloroethene	10.60	164	24912	5.768	ug/l	98
71) Bromoform	12.37	173	1866	0.682	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	92772	24.925	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	92772	63.740	ug/l #	15

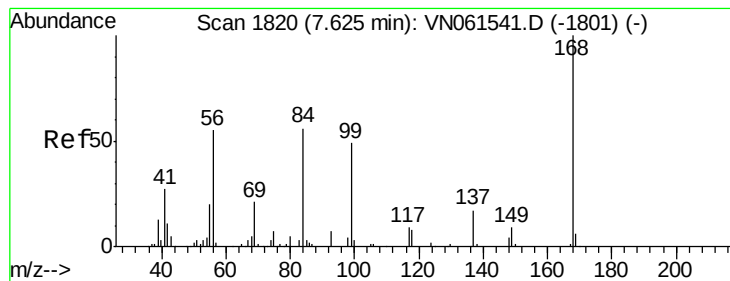
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.00 min

Lab File: VN061755.D

Acq: 11 Jun 2020 18:24

Instrument :

MSVOA_N

ClientSampleId :

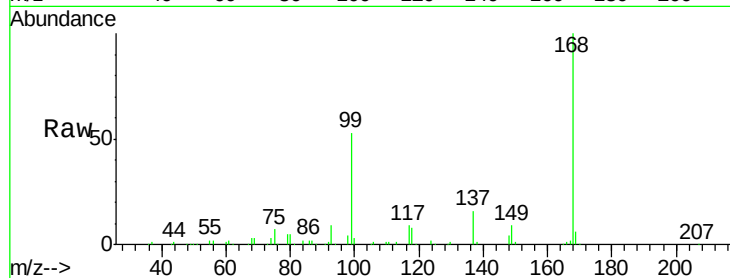
RE131D3-20200609

Tot Ion:168 Resp: 272498

Ion Ratio Lower Upper

168 100

99 52.5 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

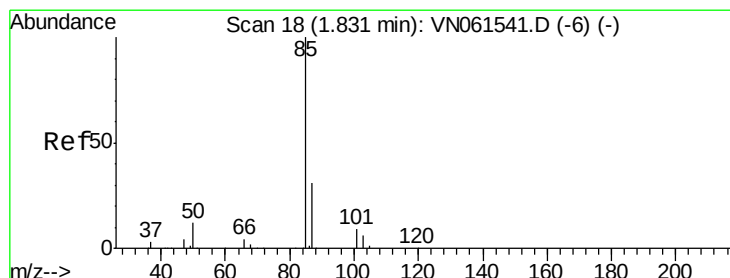
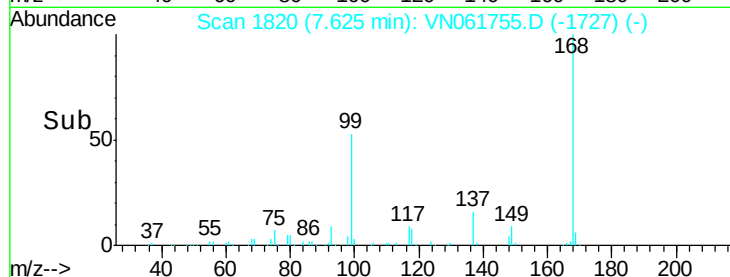
7.63

100000

50000

0

Time--> 7.50 7.60 7.70



#2

Dichlorodifluoromethane

Concen: 1.341 ug/l

RT: 1.83 min Scan# 18

Delta R.T. 0.00 min

Lab File: VN061755.D

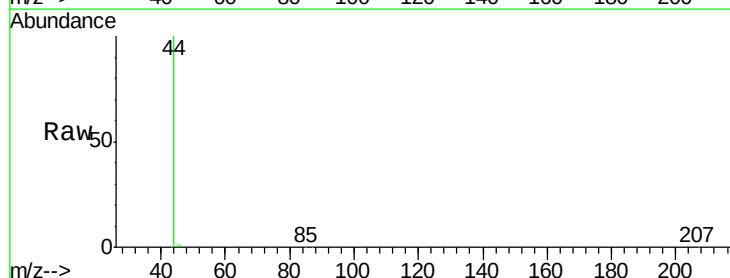
Acq: 11 Jun 2020 18:24

Tgt Ion: 85 Resp: 622

Ion Ratio Lower Upper

85 100

87 45.3 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

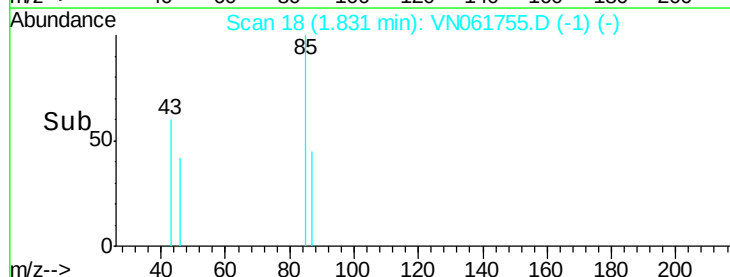
600

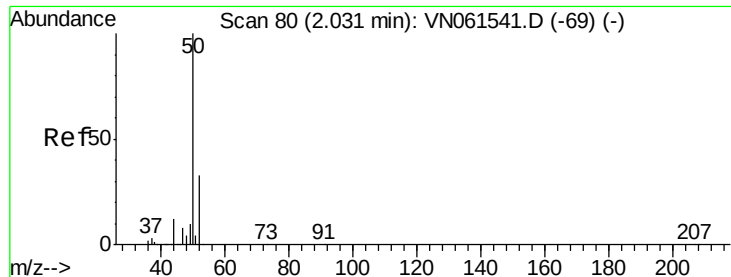
400

200

0

Time--> 1.80 1.82 1.84 1.86





#3

Chloromethane

Concen: 0.251 ug/l

RT: 2.03 min Scan# 81

Delta R.T. 0.00 min

Lab File: VN061755.D

Acq: 11 Jun 2020 18:24

Instrument :

MSVOA_N

ClientSampleId :

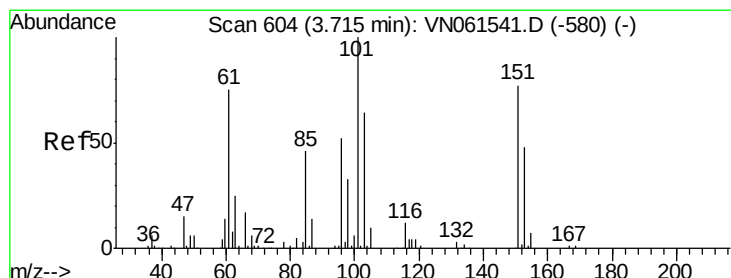
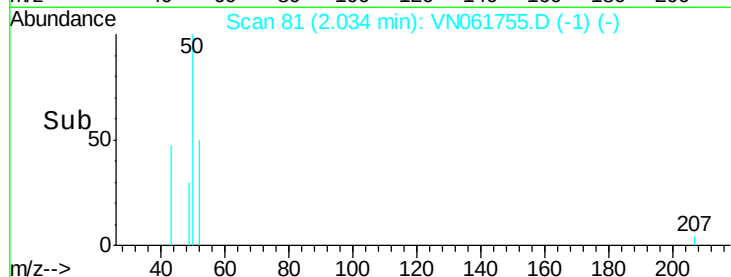
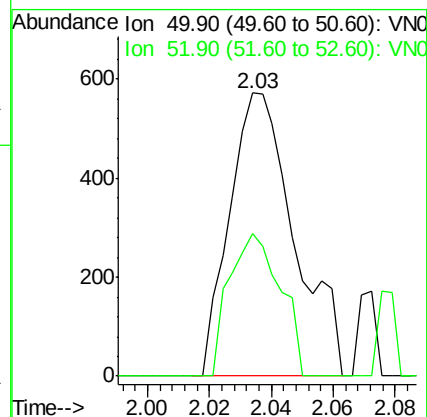
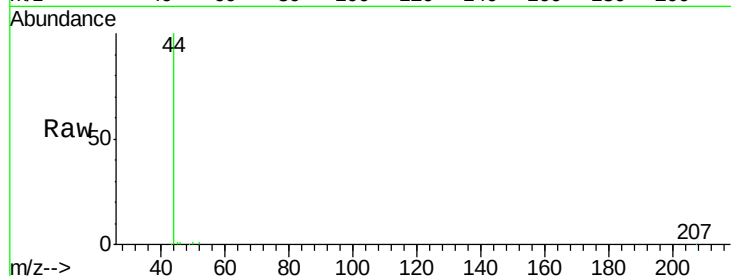
RE131D3-20200609

Tot Ion: 50 Resp: 834

Ion Ratio Lower Upper

50 100

52 50.3 26.7 40.1#



#9

1,1,2-Trichlorotrifluoroethane

Concen: 324.298 ug/l

RT: 3.72 min Scan# 605

Delta R.T. 0.00 min

Lab File: VN061755.D

Acq: 11 Jun 2020 18:24

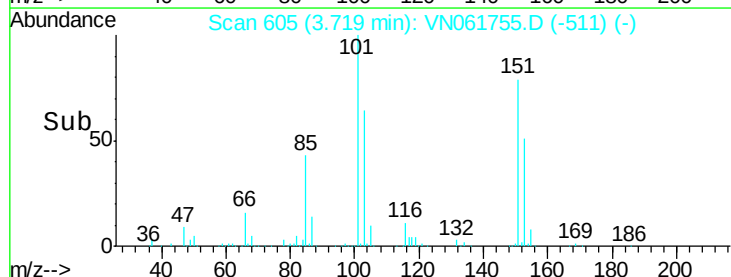
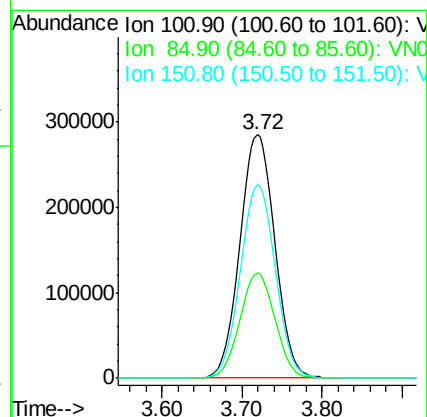
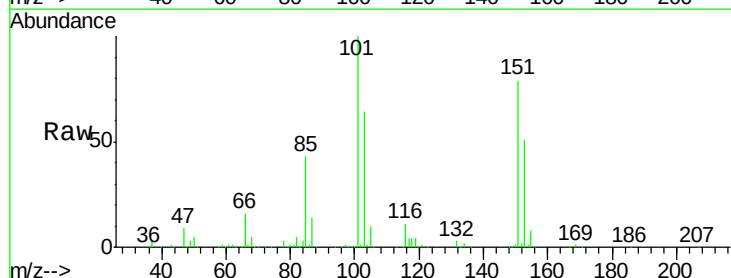
Tgt Ion: 101 Resp: 845207

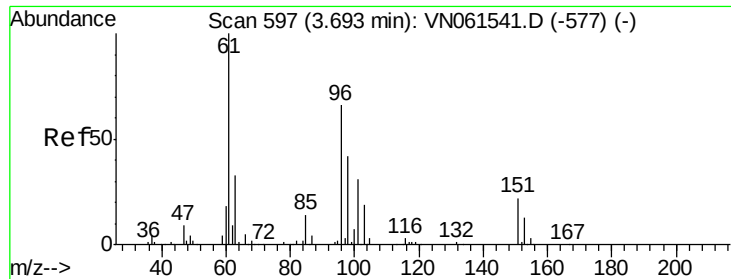
Ion Ratio Lower Upper

101 100

85 43.2 35.2 52.8

151 79.5 61.0 91.6

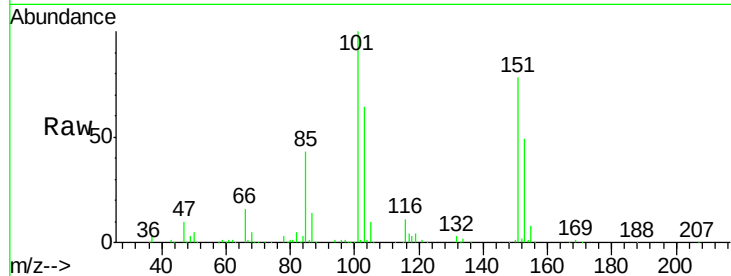




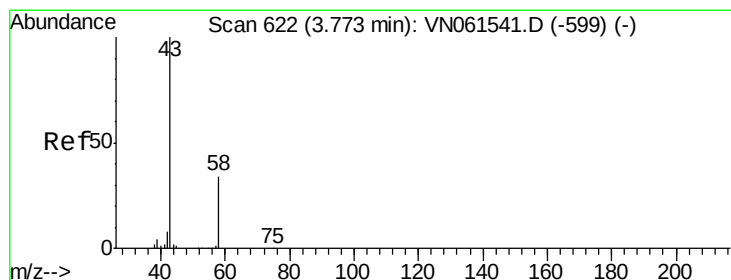
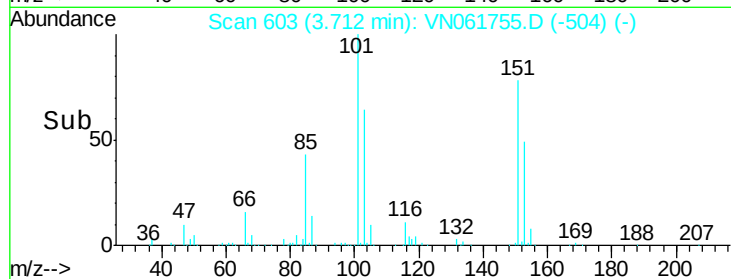
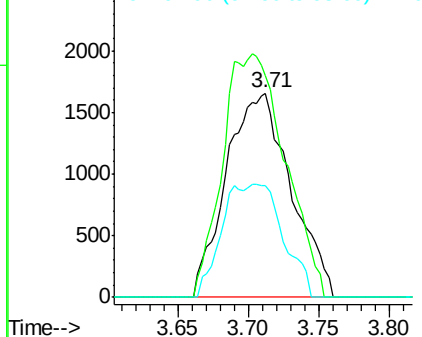
#12
 1,1-Dichloroethene
 Concen: 1.904 ug/l
 RT: 3.71 min Scan# 603
 Delta R.T. 0.02 min
 Lab File: VN061755.D
 Acq: 11 Jun 2020 18:24

Instrument :
 MSVOA_N
 ClientSampleId :
 RE131D3-20200609

Tot Ion: 96 Resp: 5301
 Ion Ratio Lower Upper
 96 100
 61 108.7 120.5 180.7#
 98 54.8 50.8 76.2

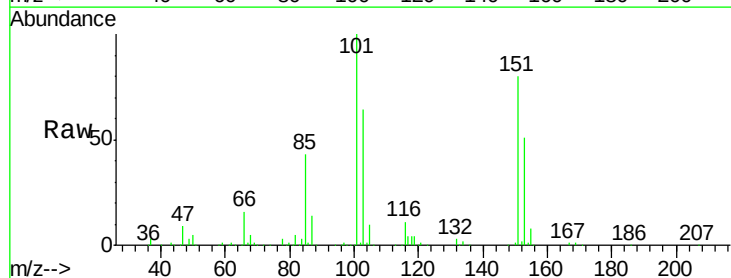


Abundance Ion 95.90 (95.60 to 96.60): VN0
 Ion 60.90 (60.60 to 61.60): VN0
 Ion 97.90 (97.60 to 98.60): VN0

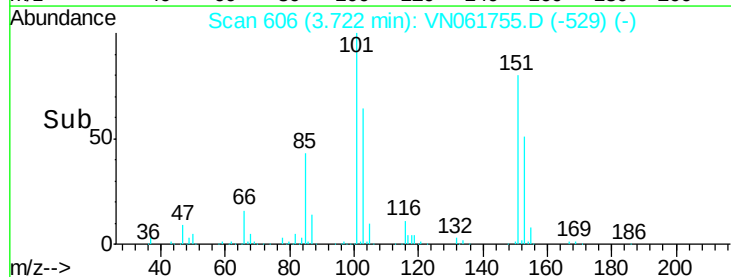
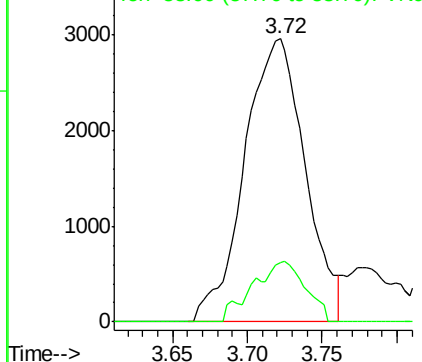


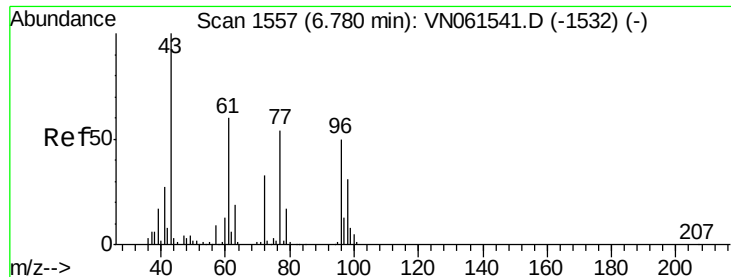
#16
 Acetone
 Concen: 3.215 ug/l
 RT: 3.72 min Scan# 606
 Delta R.T. -0.05 min
 Lab File: VN061755.D
 Acq: 11 Jun 2020 18:24

Tgt Ion: 43 Resp: 8354
 Ion Ratio Lower Upper
 43 100
 58 21.1 27.2 40.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0
 Ion 58.00 (57.70 to 58.70): VN0





#27

cis-1,2-Dichloroethene

Concen: 0.348 ug/l

RT: 6.77 min Scan# 1555

Delta R.T. -0.01 min

Lab File: VN061755.D

Acq: 11 Jun 2020 18:24

Instrument :

MSVOA_N

ClientSampleId :

RE131D3-20200609

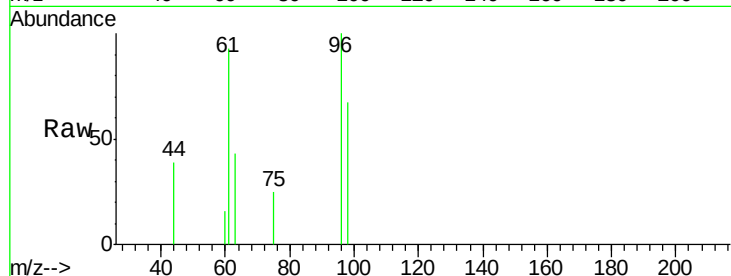
Tot Ion: 96 Resp: 1237

Ion Ratio Lower Upper

96 100

61 259.8 0.0 252.2#

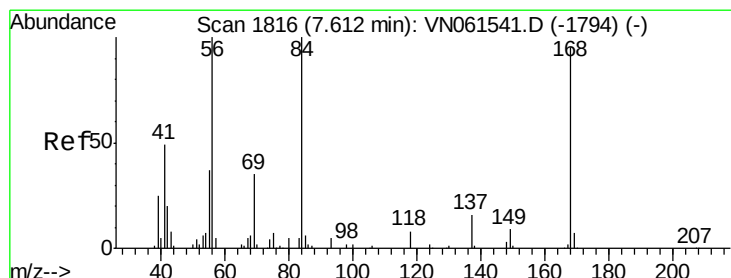
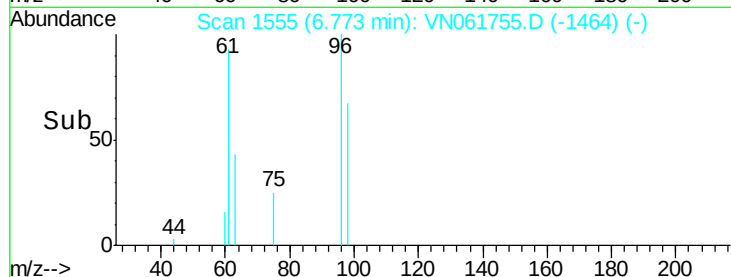
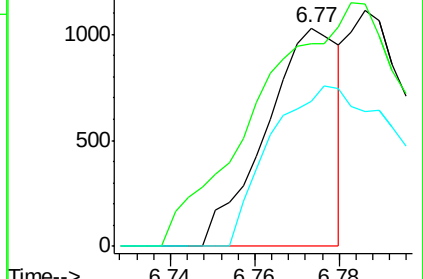
98 149.6 0.0 129.2#



Abundance Ion 95.90 (95.60 to 96.60): VN061755.D (-1532) (-)

Ion 60.90 (60.60 to 61.60): VN061755.D (-1532) (-)

Ion 97.90 (97.60 to 98.60): VN061755.D (-1532) (-)



#31

Cyclohexane

Concen: 1.078 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.01 min

Lab File: VN061755.D

Acq: 11 Jun 2020 18:24

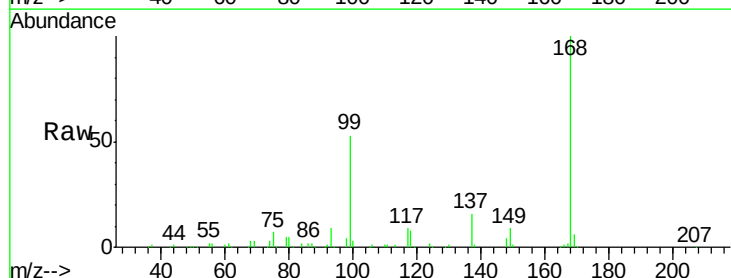
Tgt Ion: 56 Resp: 4932

Ion Ratio Lower Upper

56 100

69 181.6 27.8 41.8#

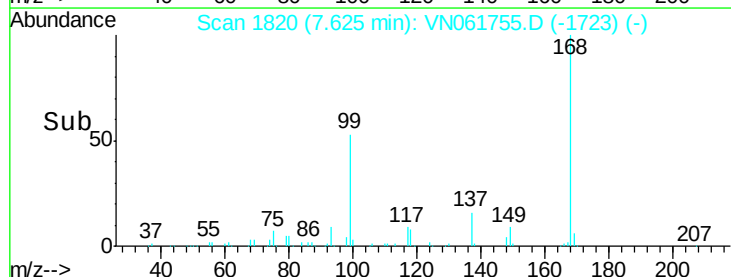
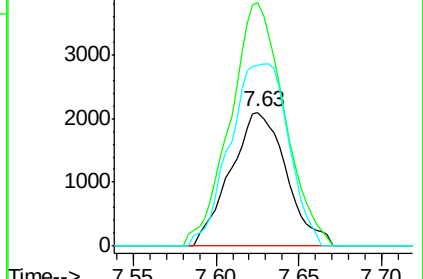
84 135.0 79.9 119.9#

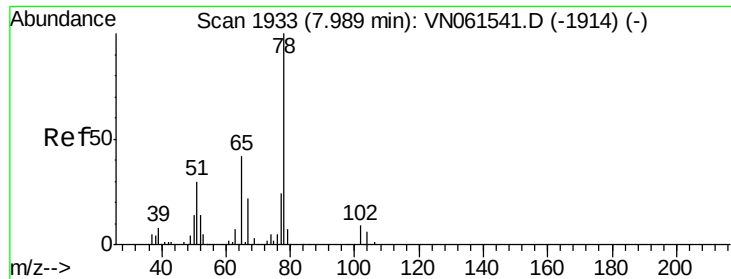


Abundance Ion 56.00 (55.70 to 56.70): VN061755.D (-1723) (-)

Ion 69.00 (68.70 to 69.70): VN061755.D (-1723) (-)

Ion 84.00 (83.70 to 84.70): VN061755.D (-1723) (-)

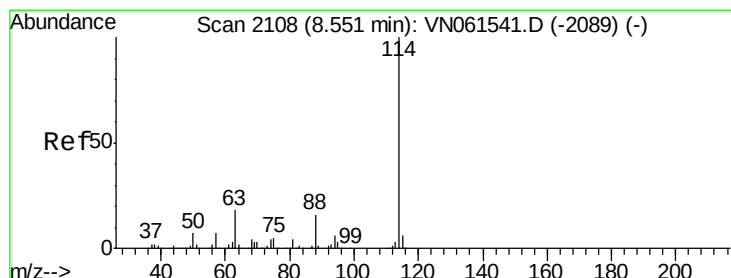
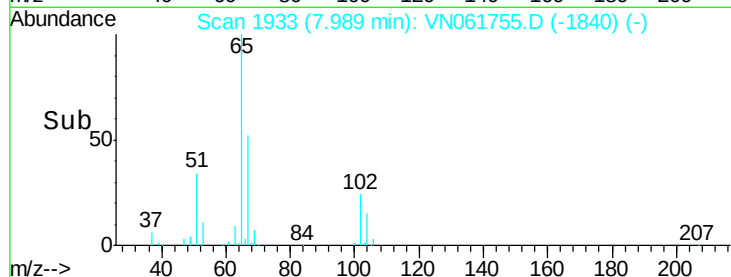
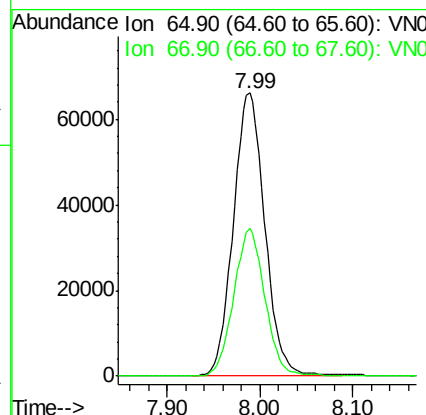
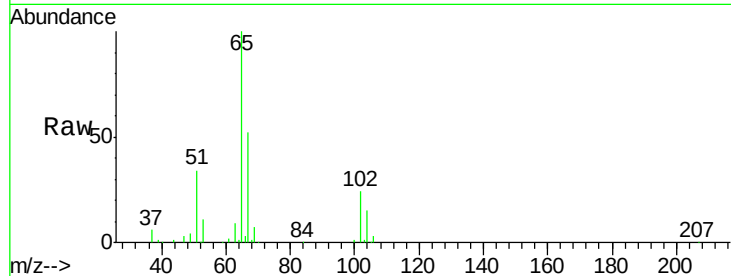




#33
 1,2-Dichloroethane-d4
 Concen: 48.032 ug/l
 RT: 7.99 min Scan# 1933
 Delta R.T. 0.00 min
 Lab File: VN061755.D
 Acq: 11 Jun 2020 18:24

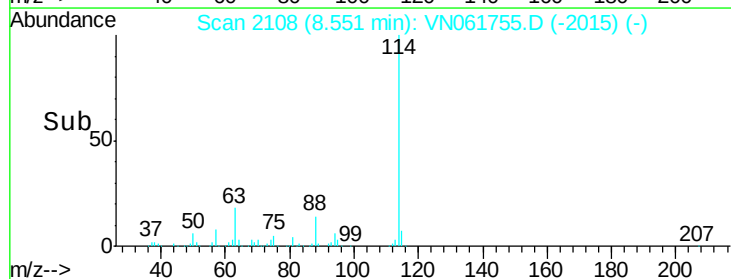
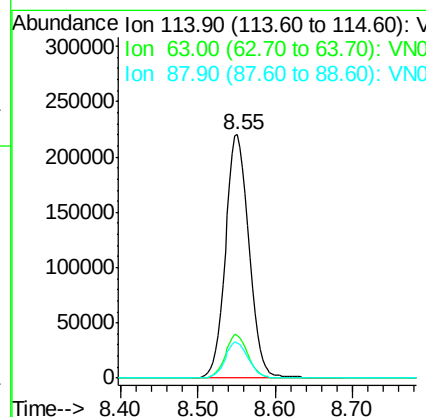
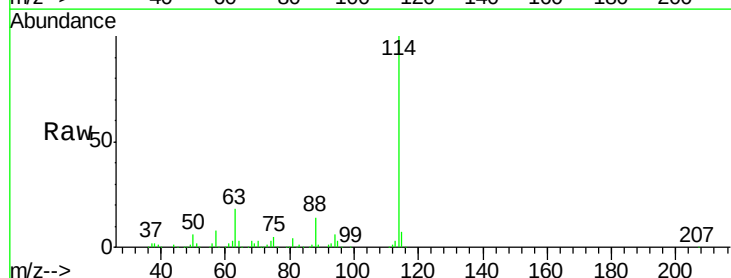
Instrument :
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 RE131D3-20200609

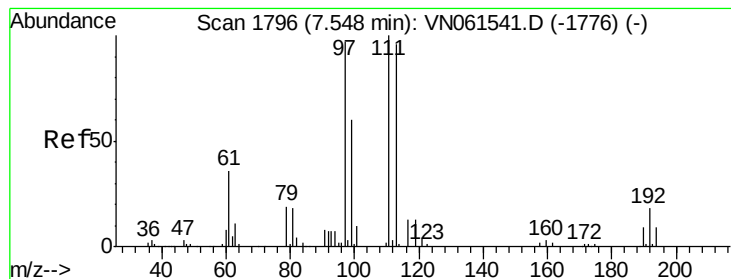
Tot Ion: 65 Resp: 155942
 Ion Ratio Lower Upper
 65 100
 67 51.6 0.0 104.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. 0.00 min
 Lab File: VN061755.D
 Acq: 11 Jun 2020 18:24

Tgt Ion: 114 Resp: 465006
 Ion Ratio Lower Upper
 114 100
 63 17.7 0.0 35.8
 88 14.5 0.0 31.0





#35

Dibromofluoromethane

Concen: 55.456 ug/l

RT: 7.55 min Scan# 1796

Delta R.T. 0.00 min

Lab File: VN061755.D

Acq: 11 Jun 2020 18:24

Instrument :

MSVOA_N

ClientSampleId :

RE131D3-20200609

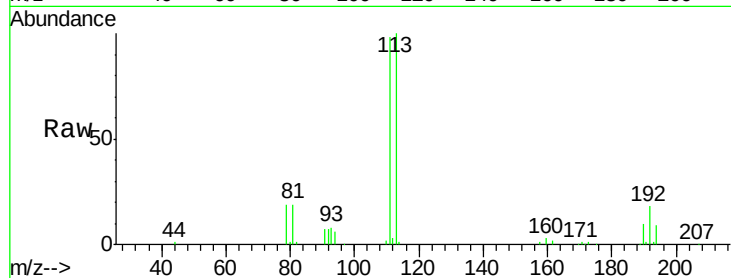
Tot Ion:113 Resp: 130814

Ion Ratio Lower Upper

113 100

111 101.3 83.4 125.0

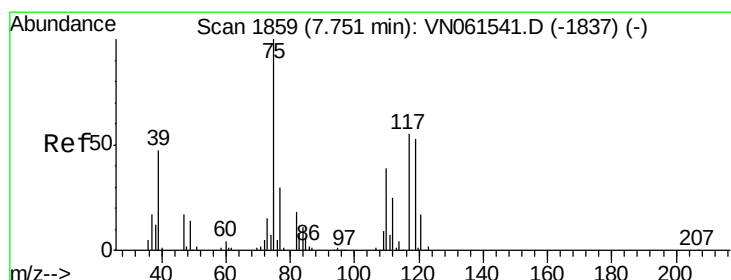
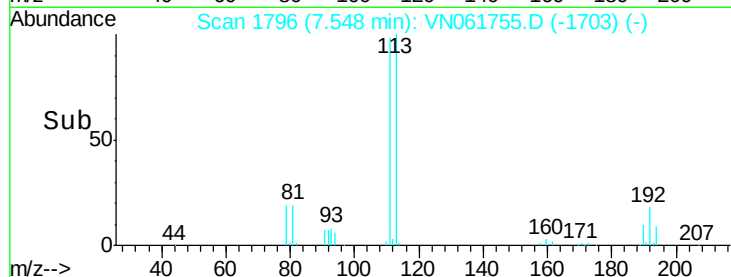
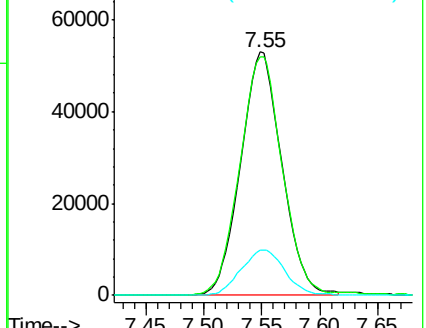
192 19.9 15.4 23.2



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: 4.559 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.13 min

Lab File: VN061755.D

Acq: 11 Jun 2020 18:24

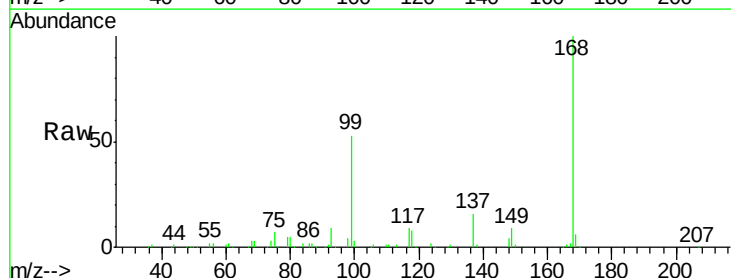
Tgt Ion: 75 Resp: 18766

Ion Ratio Lower Upper

75 100

110 10.0 19.5 58.5#

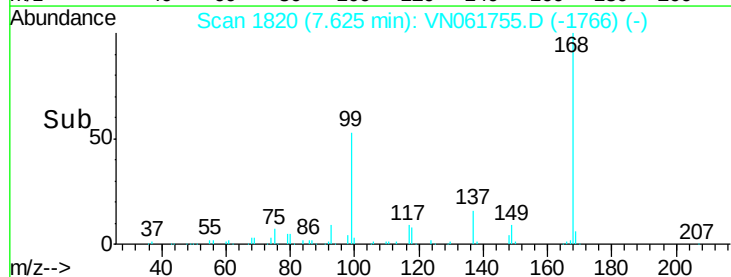
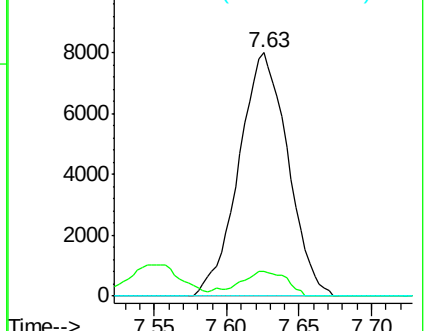
77 0.0 24.7 37.1#

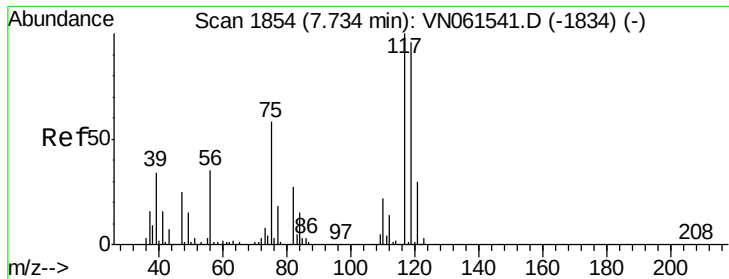


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V

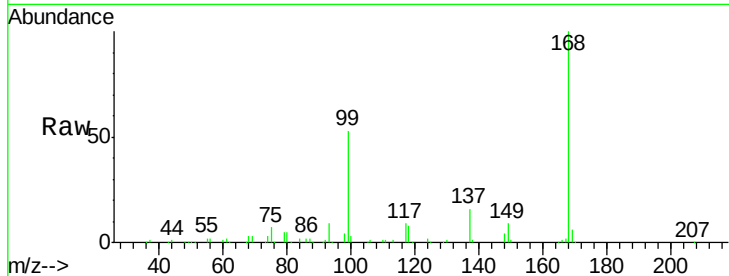




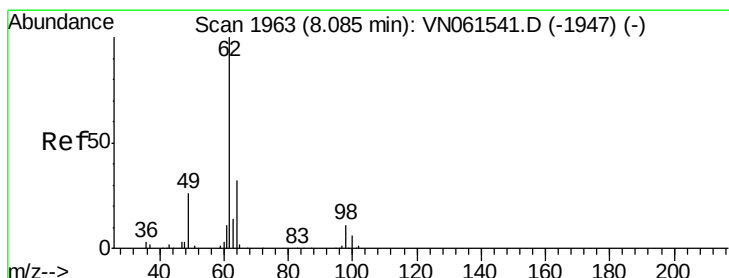
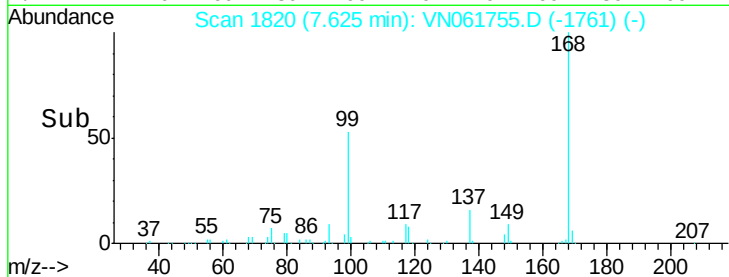
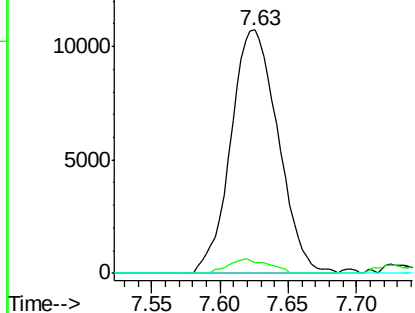
#38
Carbon Tetrachloride
Concen: 6.497 ug/l
RT: 7.63 min Scan# 1820
Delta R.T. -0.11 min
Lab File: VN061755.D
Acq: 11 Jun 2020 18:24

Instrument :
MSVOA_N
ClientSampleId :
RE131D3-20200609

Tot Ion:117 Resp: 25797
Ion Ratio Lower Upper
117 100
119 4.4 76.5 114.7#
121 0.0 24.1 36.1#

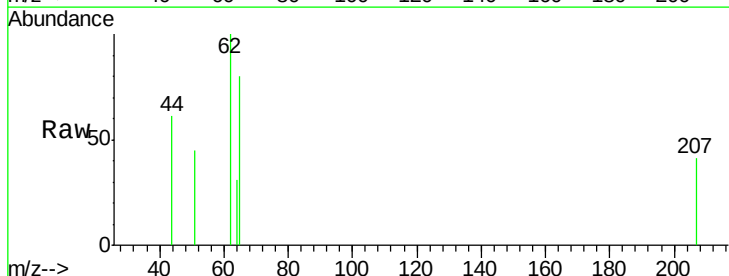


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

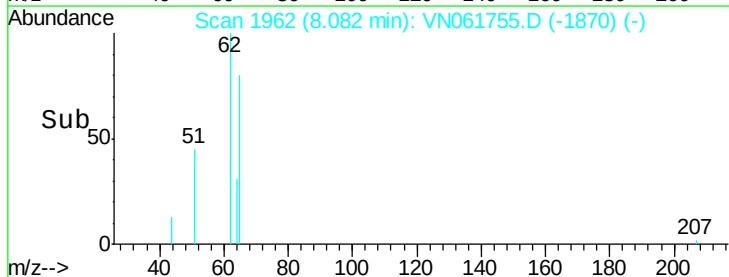
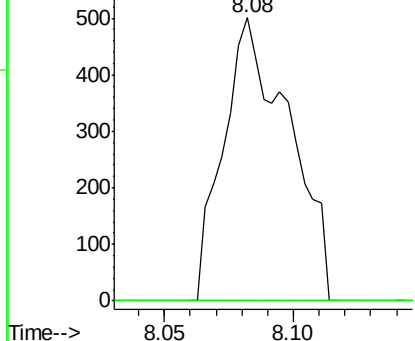


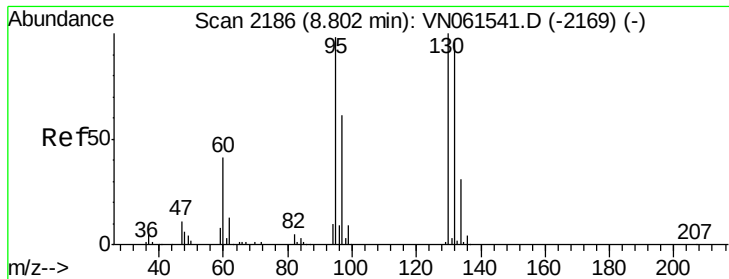
#42
1,2-Dichloroethane
Concen: 0.210 ug/l
RT: 8.08 min Scan# 1962
Delta R.T. -0.00 min
Lab File: VN061755.D
Acq: 11 Jun 2020 18:24

Tgt Ion: 62 Resp: 891
Ion Ratio Lower Upper
62 100
98 0.0 0.0 21.4



Abundance Ion 61.90 (61.60 to 62.60): V
Ion 97.90 (97.60 to 98.60): V





#44

Trichloroethene

Concen: 18.817 ug/l

RT: 8.80 min Scan# 2186

Delta R.T. 0.00 min

Lab File: VN061755.D

Acq: 11 Jun 2020 18:24

Instrument :

MSVOA_N

ClientSampleId :

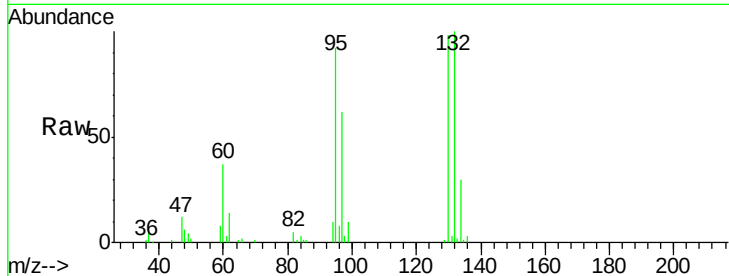
RE131D3-20200609

Tot Ion:130 Resp: 73450

Ion Ratio Lower Upper

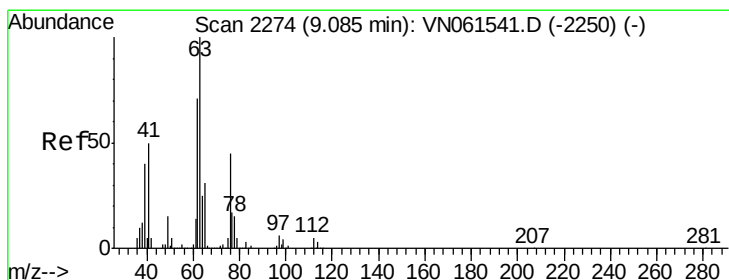
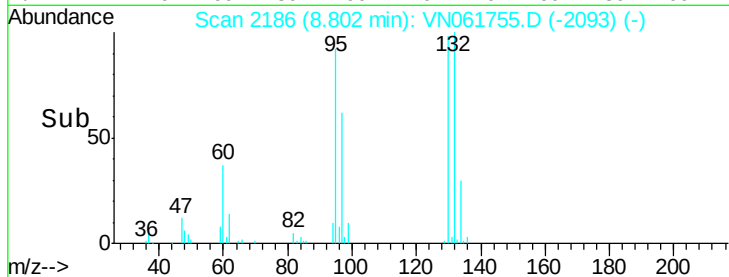
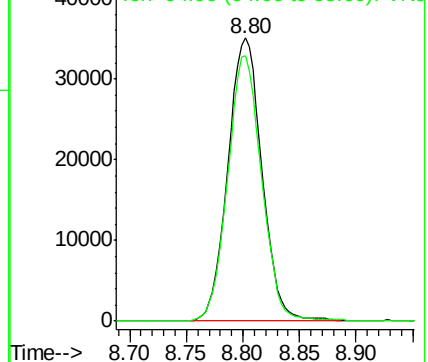
130 100

95 94.0 0.0 196.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN0



#45

1,2-Dichloropropane

Concen: 0.328 ug/l

RT: 9.08 min Scan# 2272

Delta R.T. -0.01 min

Lab File: VN061755.D

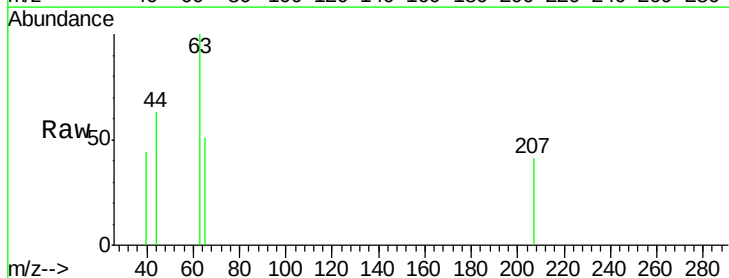
Acq: 11 Jun 2020 18:24

Tgt Ion: 63 Resp: 989

Ion Ratio Lower Upper

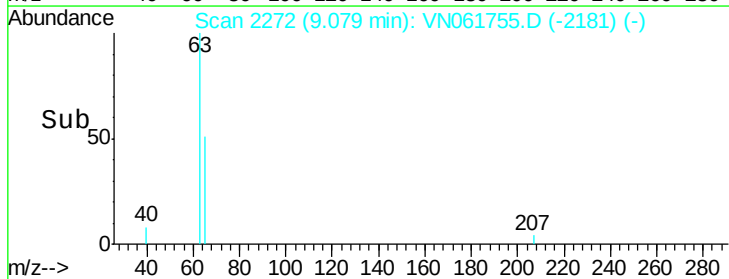
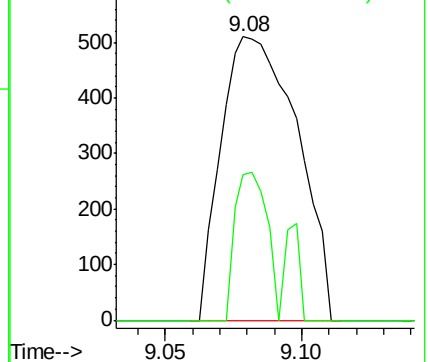
63 100

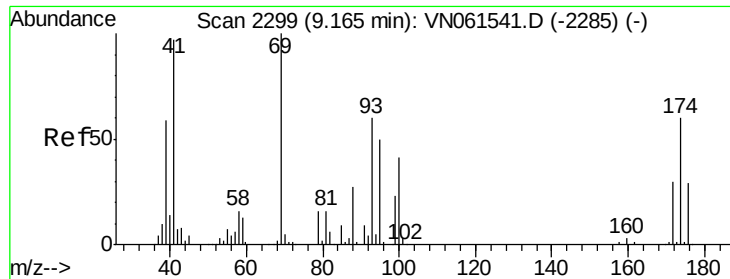
65 51.4 24.7 37.1#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0





#49

1,4-Dioxane

Concen: 4.907 ug/l

RT: 9.16 min Scan# 2298

Delta R.T. -0.00 min

Lab File: VN061755.D

Acq: 11 Jun 2020 18:24

Instrument :

MSVOA_N

ClientSampleId :

RE131D3-20200609

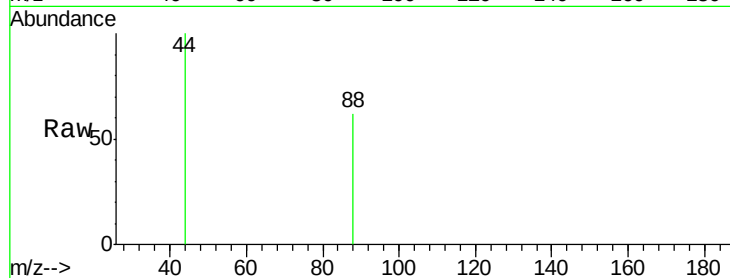
Tot Ion: 88 Resp: 204

Ion Ratio Lower Upper

88 100

43 0.0 23.1 34.7#

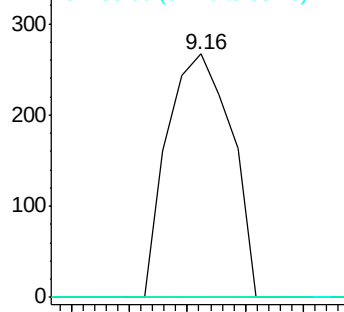
58 0.0 48.3 72.5#



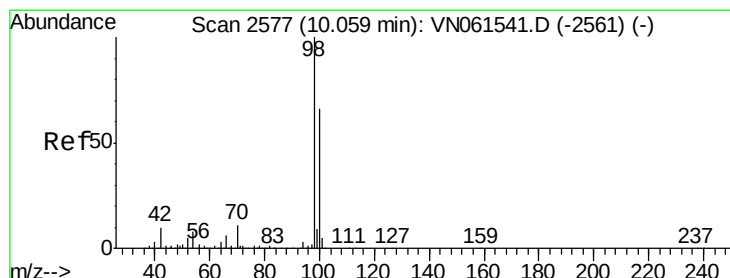
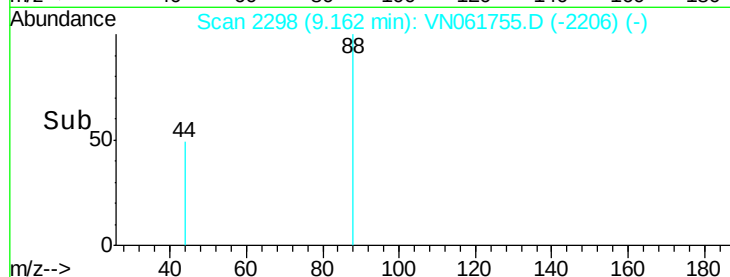
Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



Time--> 9.14 9.15 9.16 9.17 9.18



#50

Toluene-d8

Concen: 50.882 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.00 min

Lab File: VN061755.D

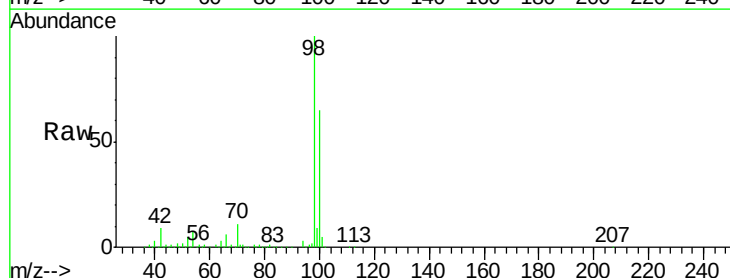
Acq: 11 Jun 2020 18:24

Tgt Ion: 98 Resp: 556214

Ion Ratio Lower Upper

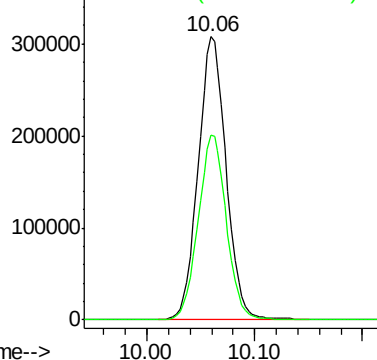
98 100

100 65.9 52.8 79.2

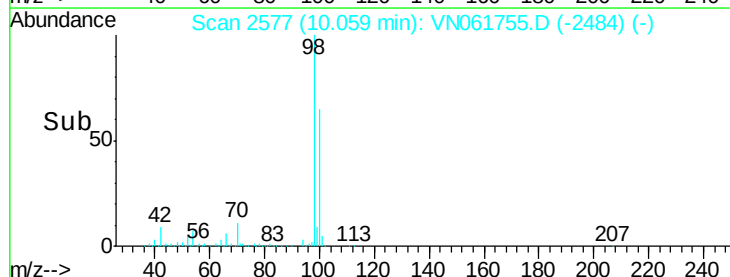


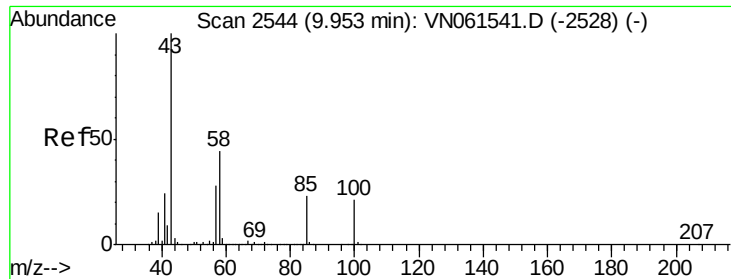
Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0



Time--> 10.00 10.10

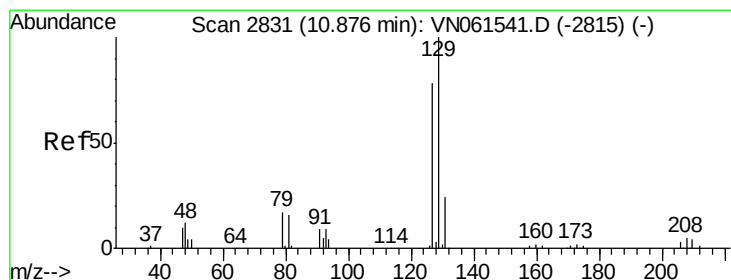
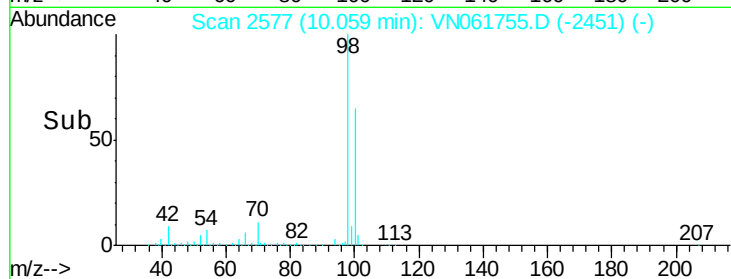
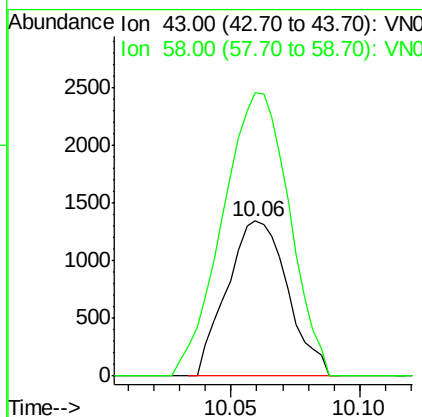
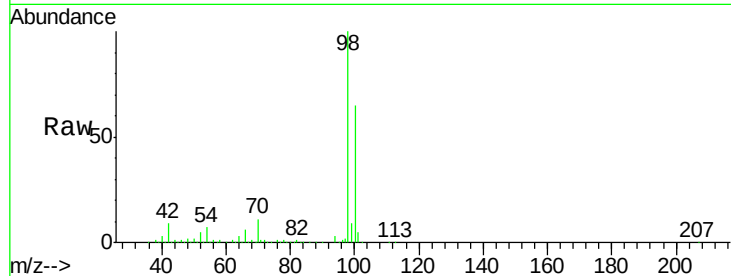




#51
4-Methyl-2-Pentanone
Concen: 0.655 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. 0.11 min
Lab File: VN061755.D
Acq: 11 Jun 2020 18:24

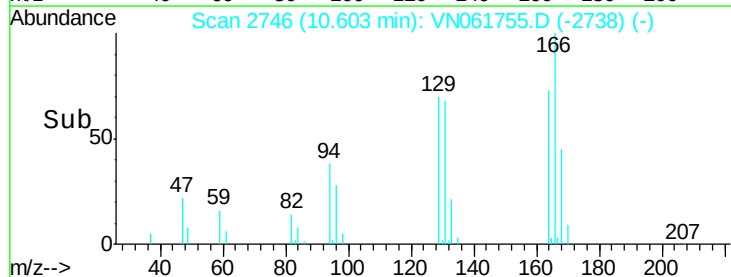
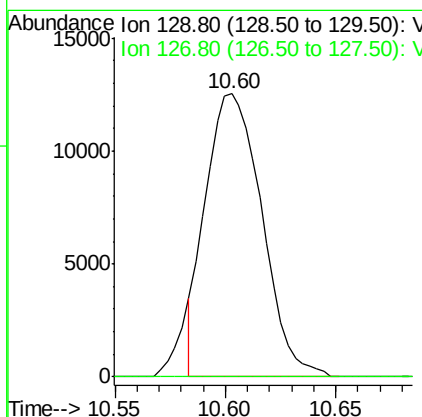
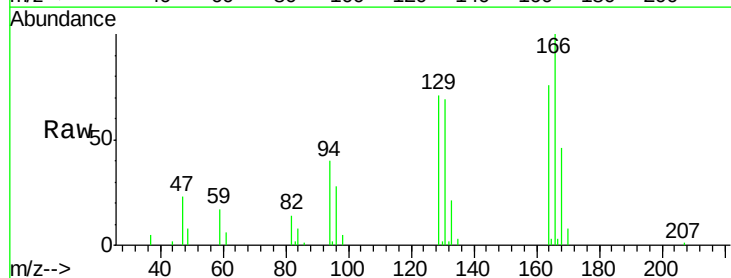
Instrument :
MSVOA_N
ClientSampleId :
RE131D3-20200609

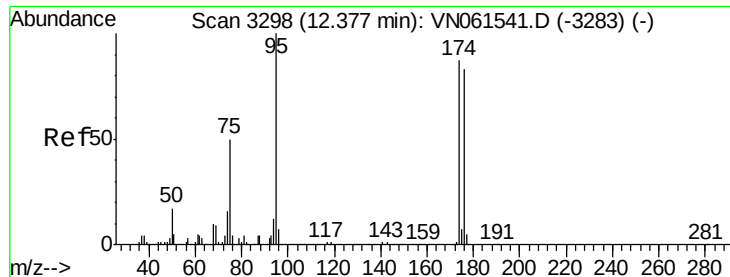
Tot Ion: 43 Resp: 2201
Ion Ratio Lower Upper
43 100
58 201.1 35.0 52.6#



#60
Dibromochloromethane
Concen: 5.893 ug/l
RT: 10.60 min Scan# 2746
Delta R.T. -0.27 min
Lab File: VN061755.D
Acq: 11 Jun 2020 18:24

Tgt Ion: 129 Resp: 22126
Ion Ratio Lower Upper
129 100
127 0.0 38.8 116.3#

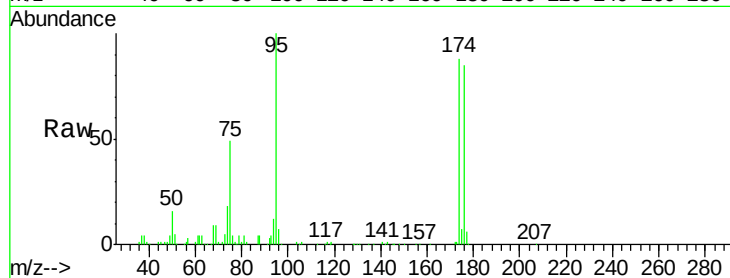




#62
4-Bromofluorobenzene
Concen: 48.634 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.00 min
Lab File: VN061755.D
Acq: 11 Jun 2020 18:24

Instrument :
MSVOA_N
ClientSampleId :
RE131D3-20200609

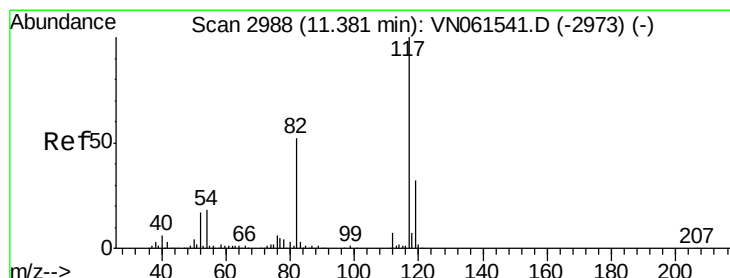
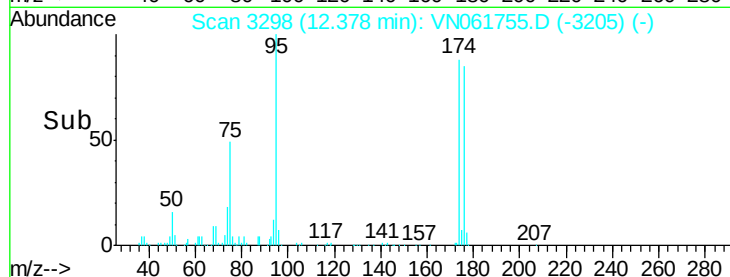
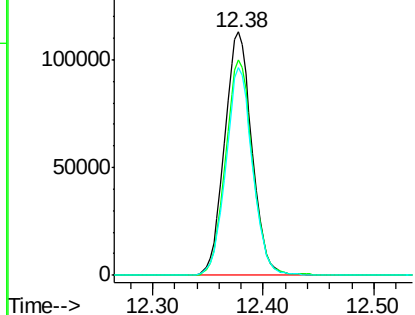
Tot Ion	Ratio	Lower	Upper
95	100		
174	87.6	0.0	172.8
176	83.2	0.0	164.8



Abundance Ion 94.90 (94.60 to 95.60): VN061755.D (-3205) (-)

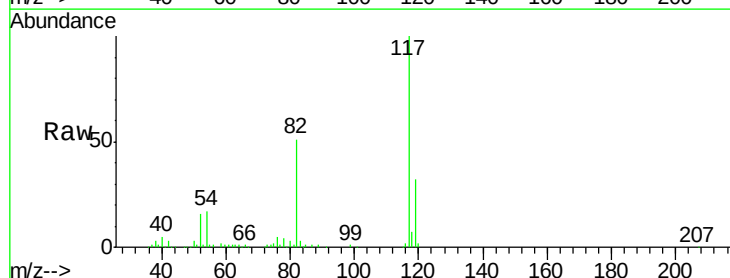
Ion 173.80 (173.50 to 174.50): VN061755.D (-3205) (-)

Ion 175.80 (175.50 to 176.50): VN061755.D (-3205) (-)



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. 0.00 min
Lab File: VN061755.D
Acq: 11 Jun 2020 18:24

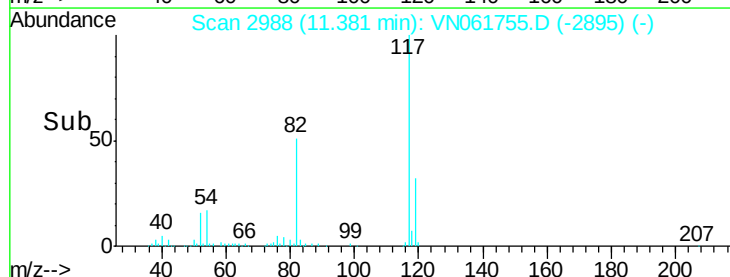
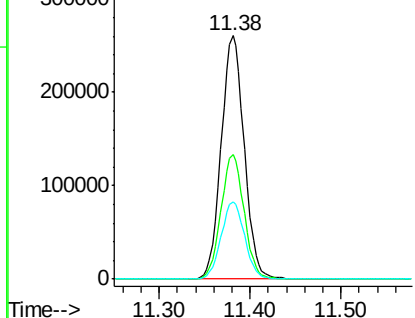
Tgt Ion	Ratio	Lower	Upper
117	100		
82	51.0	41.5	62.3
119	31.8	25.6	38.4

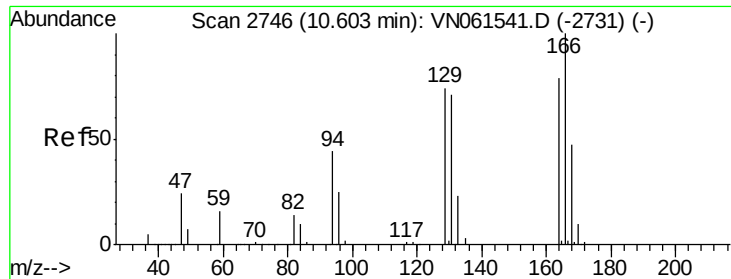


Abundance Ion 116.90 (116.60 to 117.60): VN061755.D (-2895) (-)

Ion 82.00 (81.70 to 82.70): VN061755.D (-2895) (-)

Ion 118.90 (118.60 to 119.60): VN061755.D (-2895) (-)





#64

Tetrachloroethene

Concen: 5.768 ug/l

RT: 10.60 min Scan# 2746

Delta R.T. 0.00 min

Lab File: VN061755.D

Acq: 11 Jun 2020 18:24

Instrument :

MSVOA_N

ClientSampleId :

RE131D3-20200609

Tot Ion:164 Resp: 24912

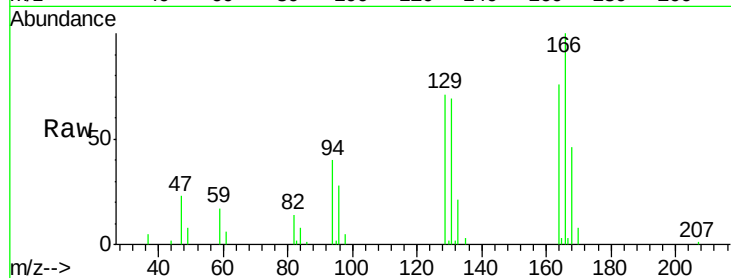
Ion Ratio Lower Upper

164 100

166 130.9 101.5 152.3

129 93.5 74.9 112.3

131 89.7 72.2 108.2

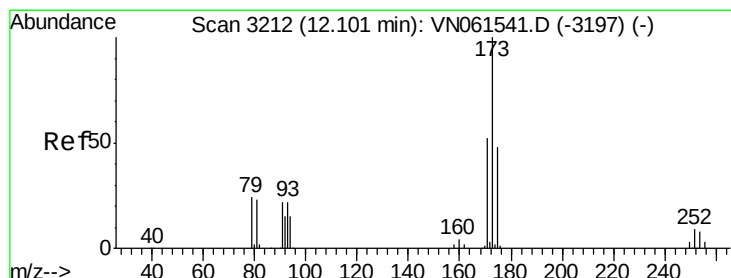
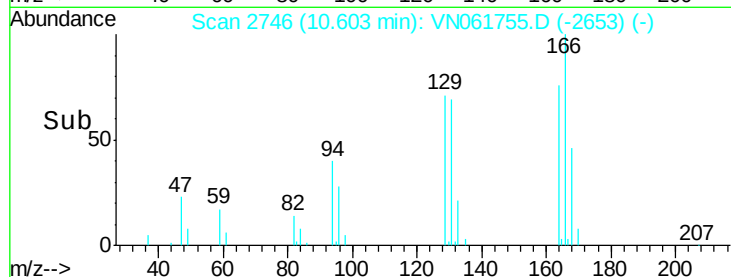
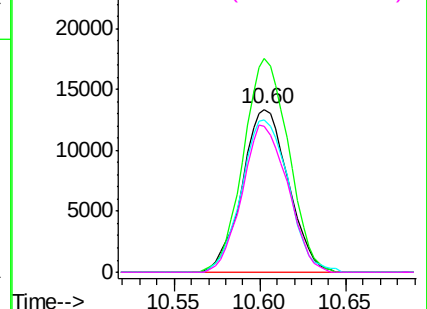


Abundance Ion 163.80 (163.50 to 164.50): V

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: 0.682 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. 0.27 min

Lab File: VN061755.D

Acq: 11 Jun 2020 18:24

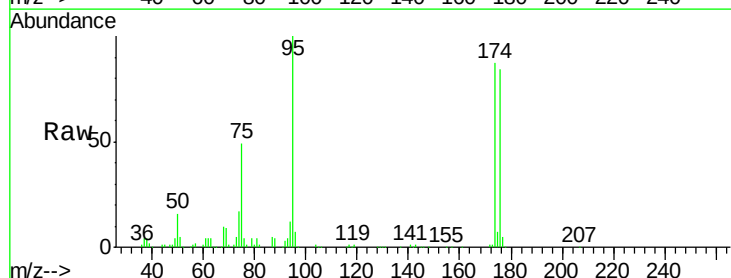
Tgt Ion:173 Resp: 1866

Ion Ratio Lower Upper

173 100

175 593.3 24.4 73.2#

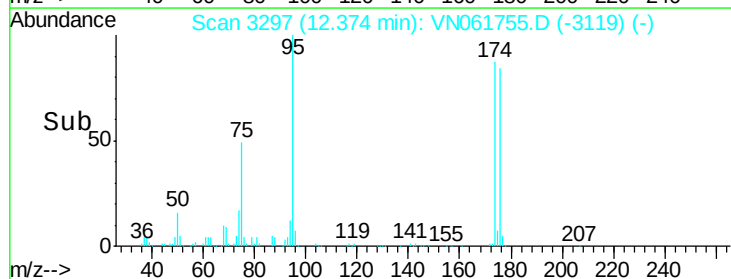
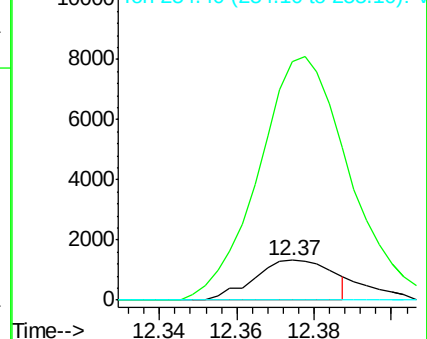
254 0.0 0.0 0.0

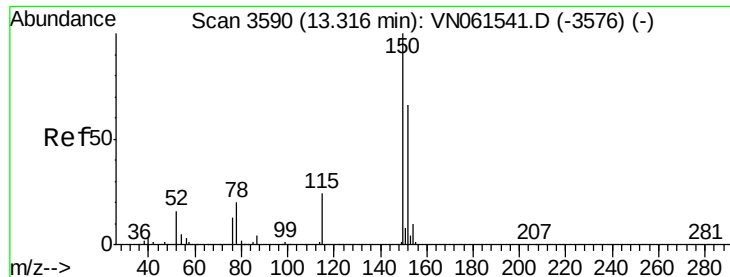


Abundance Ion 172.70 (172.40 to 173.40): V

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: VN061755.D

Acq: 11 Jun 2020 18:24

Instrument :

MSVOA_N

ClientSampleId :

RE131D3-20200609

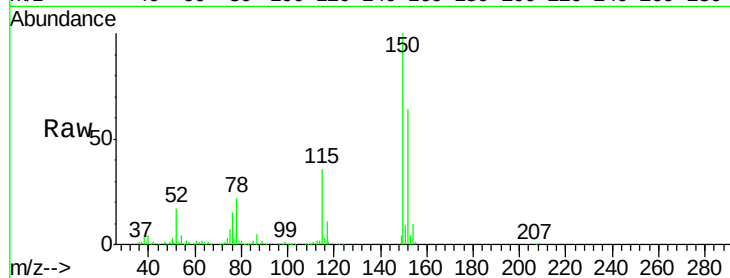
Tot Ion:152 Resp: 204688

Ion Ratio Lower Upper

152 100

115 55.7 28.0 84.0

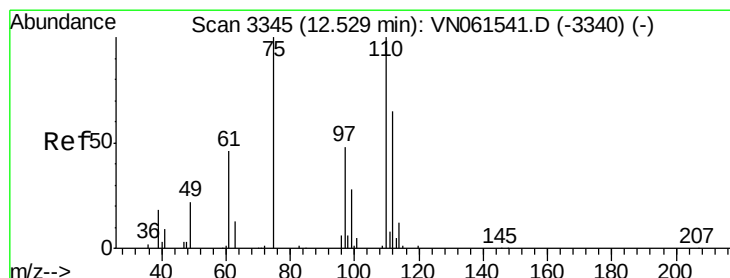
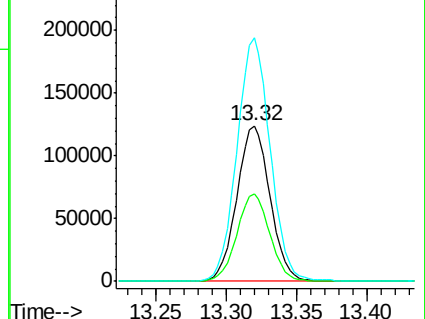
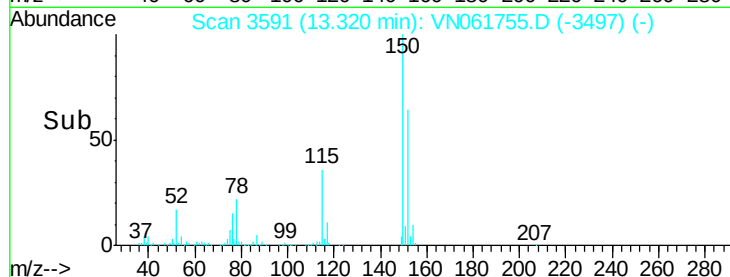
150 156.7 0.0 344.0



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 24.925 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN061755.D

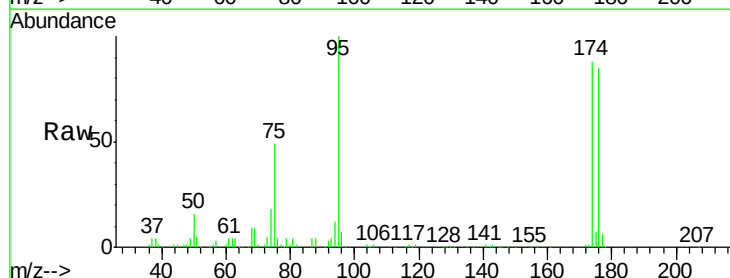
Acq: 11 Jun 2020 18:24

Tgt Ion: 75 Resp: 92772

Ion Ratio Lower Upper

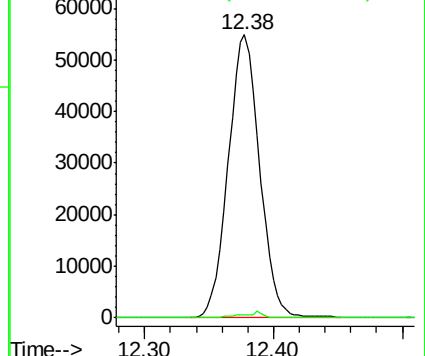
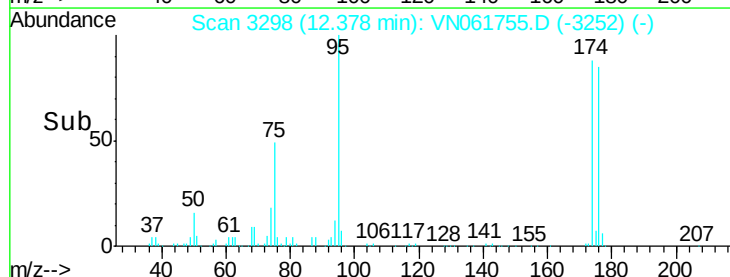
75 100

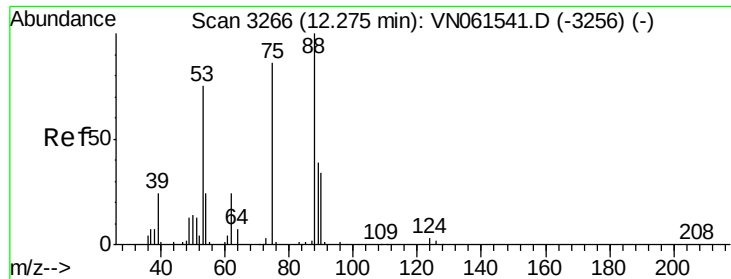
77 1.4 0.0 0.0#



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: 63.740 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN061755.D

Acq: 11 Jun 2020 18:24

Instrument :

MSVOA_N

ClientSampleId :

RE131D3-20200609

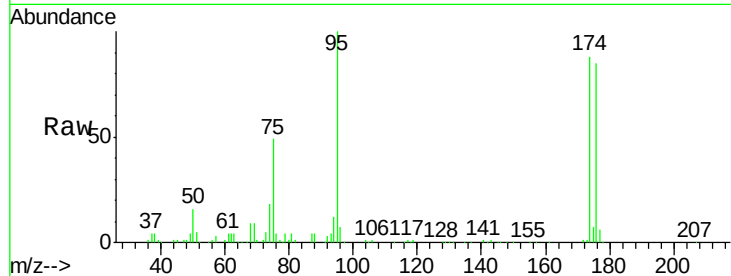
Tot Ion: 75 Resp: 92772

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

