

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061120\
 Data File : VN061760.D
 Acq On : 11 Jun 2020 20:21
 Operator : JC/MD
 Sample : L2988-20
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 12 05:49:32 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

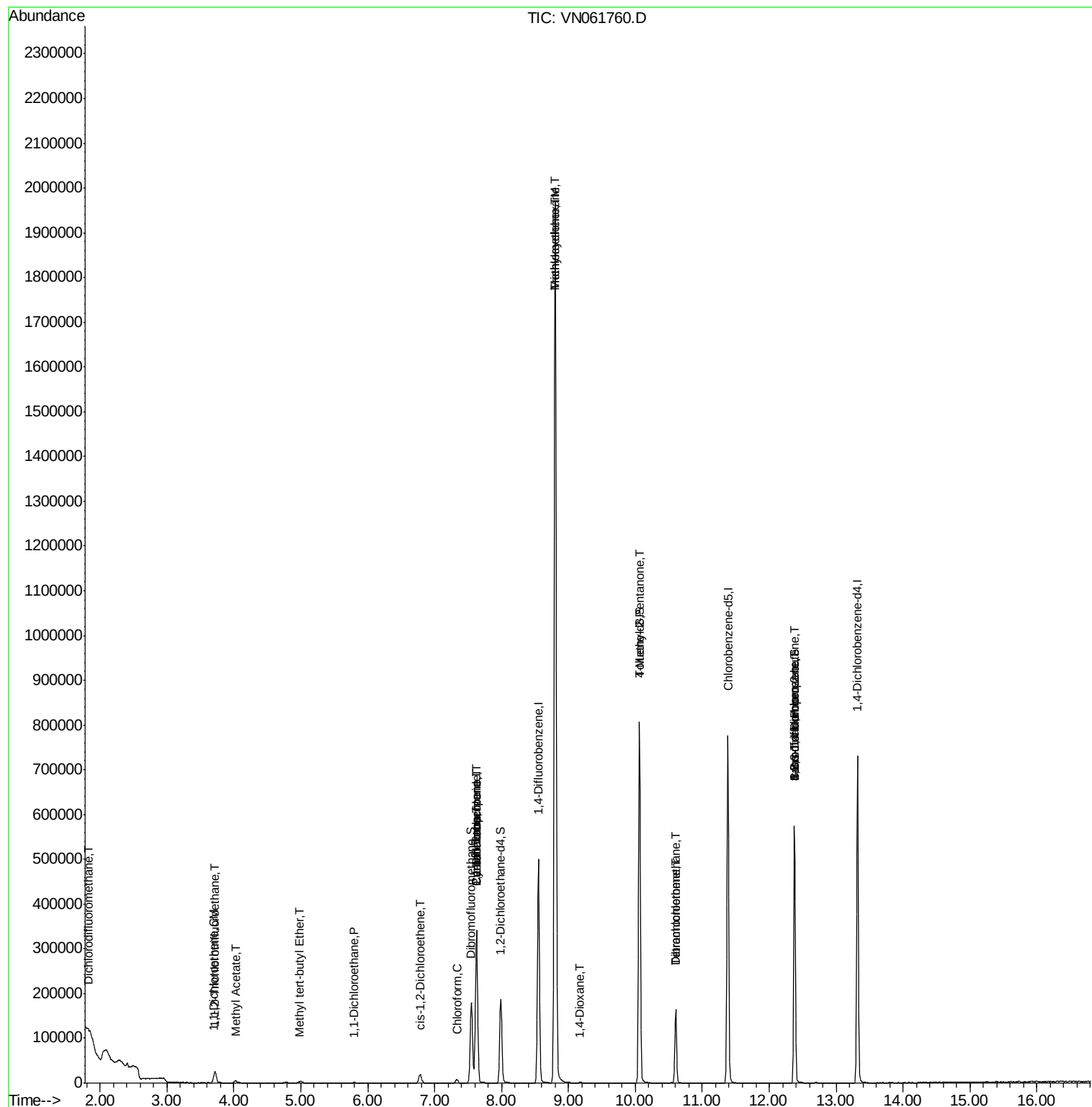
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	285238	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	486014	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	482027	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	213693	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	160844	47.33	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.66%	
35) Dibromofluoromethane	7.55	113	137699	55.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.70%	
50) Toluene-d8	10.06	98	585395	51.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.48%	
62) 4-Bromofluorobenzene	12.38	95	199032	47.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.50%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.83	85	612	1.330	ug/l #	43
9) 1,1,2-Trichlorotrifluoroet	3.72	101	15572	5.708	ug/l	96
12) 1,1-Dichloroethene	3.69	96	1152	0.395	ug/l	82
16) Acetone	3.78	43	696	Below Cal	#	80
18) Methyl Acetate	4.03	43	2233	0.726	ug/l #	46
19) Methyl tert-butyl Ether	4.98	73	3229	0.325	ug/l	95
24) 1,1-Dichloroethane	5.79	63	2359	0.443	ug/l #	81
27) cis-1,2-Dichloroethene	6.78	96	14311	3.845	ug/l	92
28) Bromochloromethane	7.33	49	548	Below Cal	#	3
30) Chloroform	7.33	83	8591	1.458	ug/l	99
31) Cyclohexane	7.62	56	5022	1.049	ug/l #	28
36) 1,1-Dichloropropene	7.63	75	19666	4.571	ug/l #	47
38) Carbon Tetrachloride	7.63	117	27724	6.680	ug/l #	17
39) Methylcyclohexane	8.80	83	8495	1.602	ug/l #	1
44) Trichloroethene	8.80	130	767346	188.086	ug/l	96
49) 1,4-Dioxane	9.17	88	1629	37.487	ug/l #	91
51) 4-Methyl-2-Pentanone	10.06	43	1902	0.541	ug/l #	1
60) Dibromochloromethane	10.60	129	34583	8.812	ug/l #	11
64) Tetrachloroethene	10.60	164	40054	8.828	ug/l	99
71) Bromoform	12.38	173	1466	0.510	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	97532	25.100	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	97532	64.187	ug/l #	15

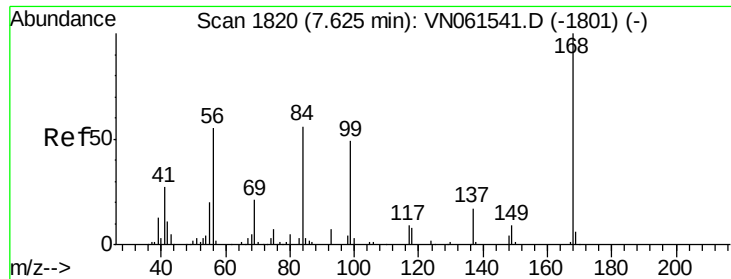
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN061760.D

Acq: 11 Jun 2020 20:21

Instrument :

MSVOA_N

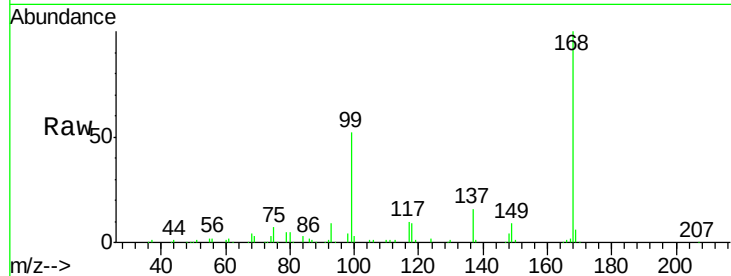
ClientSampleId :

Tot Ion:168 Resp: 285238

Ion Ratio Lower Upper

168 100

99 52.0 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

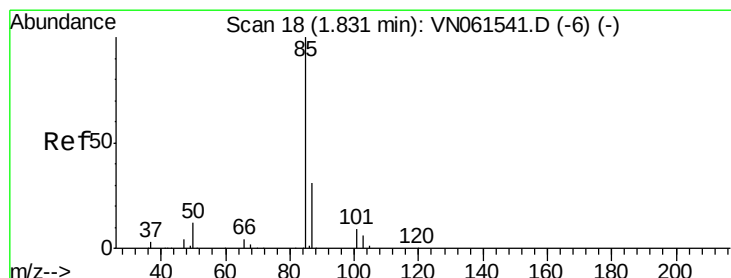
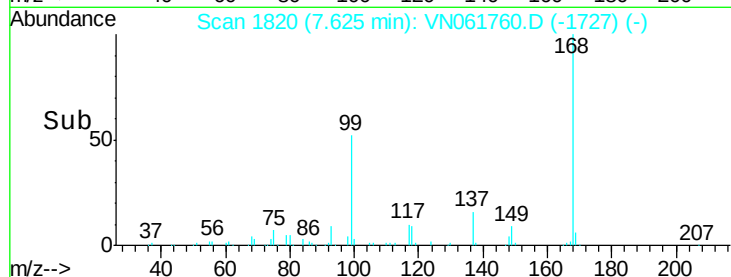
7.63

100000

50000

0

Time--> 7.50 7.60 7.70



#2

Dichlorodifluoromethane

Concen: 1.330 ug/l

RT: 1.83 min Scan# 18

Delta R.T. 0.00 min

Lab File: VN061760.D

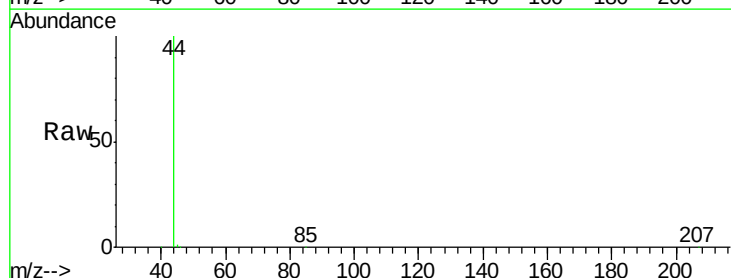
Acq: 11 Jun 2020 20:21

Tgt Ion: 85 Resp: 612

Ion Ratio Lower Upper

85 100

87 0.0 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

500

400

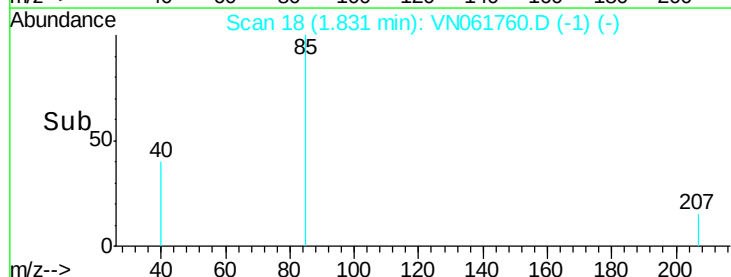
300

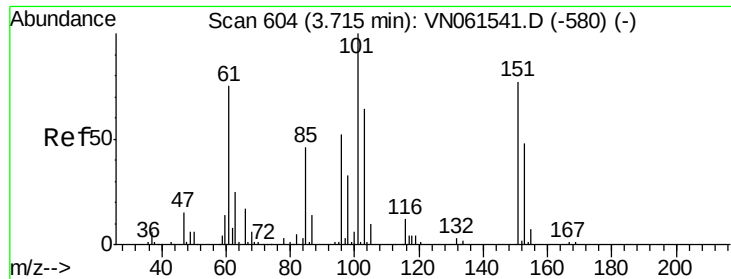
200

100

0

Time--> 1.80 1.82 1.84 1.86





#9

1,1,2-Trichlorotrifluoroethane

Concen: 5.708 ug/l

RT: 3.72 min Scan# 605

Delta R.T. 0.00 min

Lab File: VN061760.D

Acq: 11 Jun 2020 20:21

Instrument :

MSVOA_N

ClientSampled :

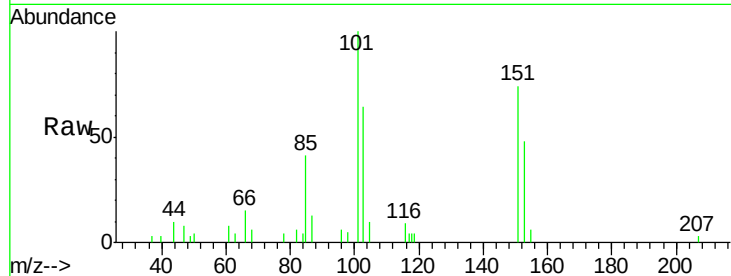
Tot Ion:101 Resp: 15572

Ion Ratio Lower Upper

101 100

85 40.0 35.2 52.8

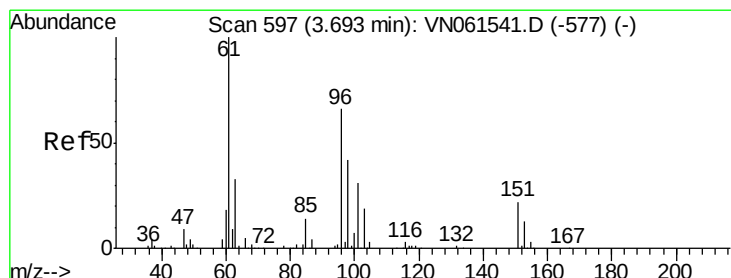
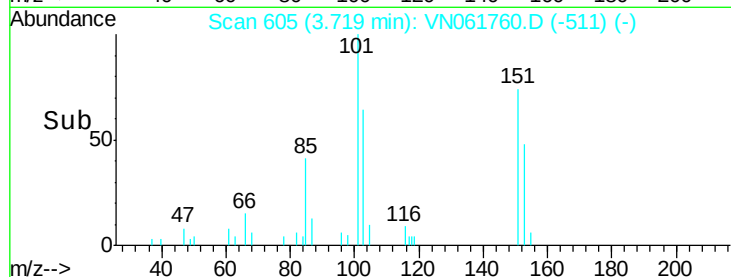
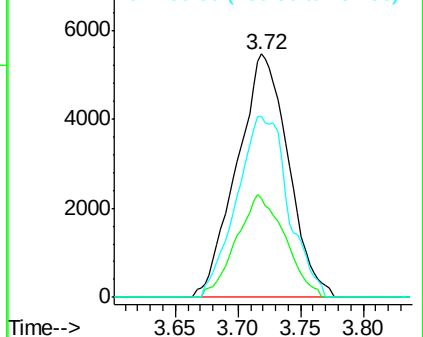
151 74.4 61.0 91.6



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VN0

Ion 150.80 (150.50 to 151.50): V



#12

1,1-Dichloroethene

Concen: 0.395 ug/l

RT: 3.69 min Scan# 597

Delta R.T. 0.00 min

Lab File: VN061760.D

Acq: 11 Jun 2020 20:21

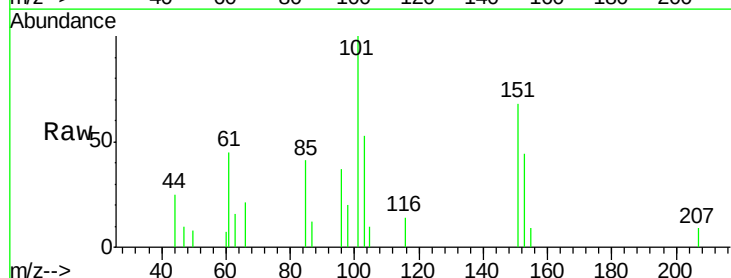
Tgt Ion: 96 Resp: 1152

Ion Ratio Lower Upper

96 100

61 122.9 120.5 180.7

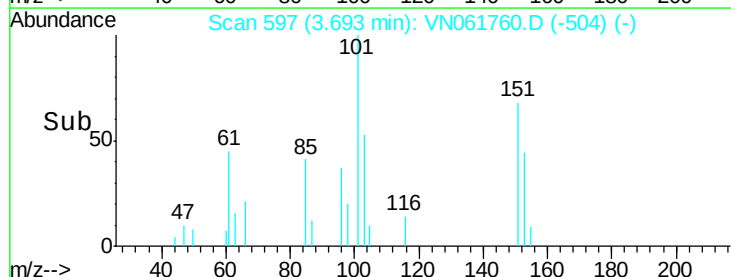
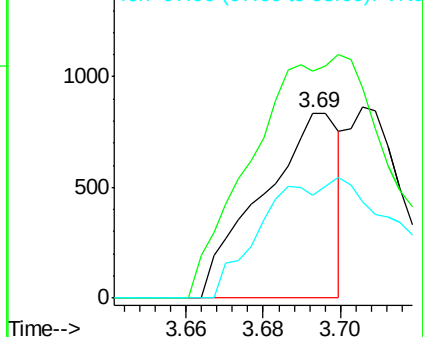
98 55.6 50.8 76.2

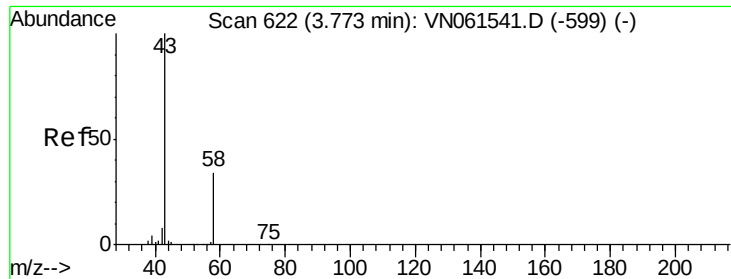


Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

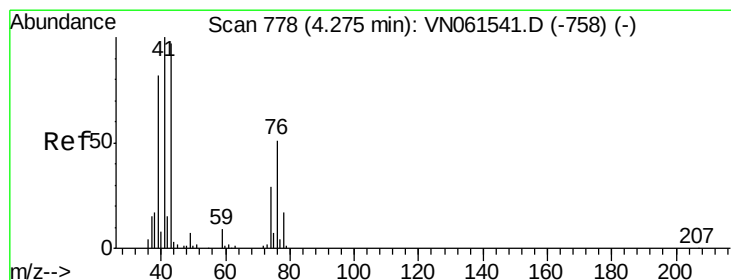
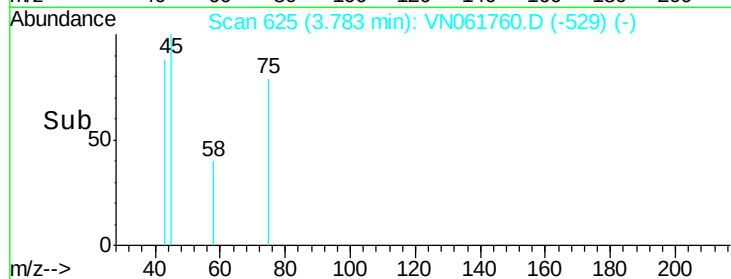
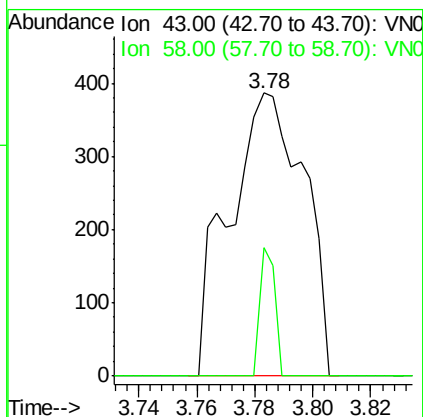
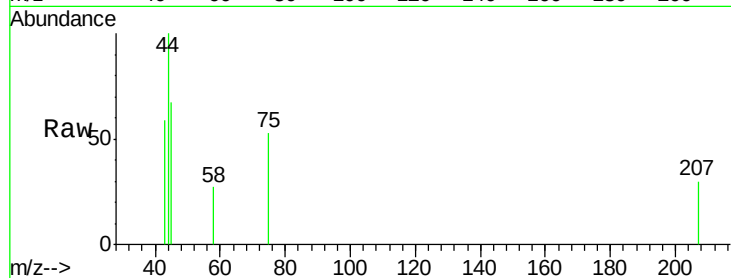




#16
Acetone
Concen: Below Cal
RT: 3.78 min Scan# 625
Delta R.T. 0.01 min
Lab File: VN061760.D
Acq: 11 Jun 2020 20:21

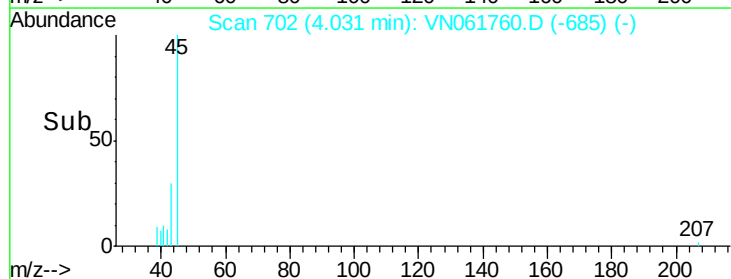
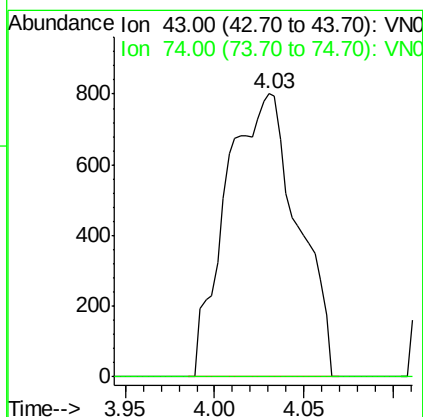
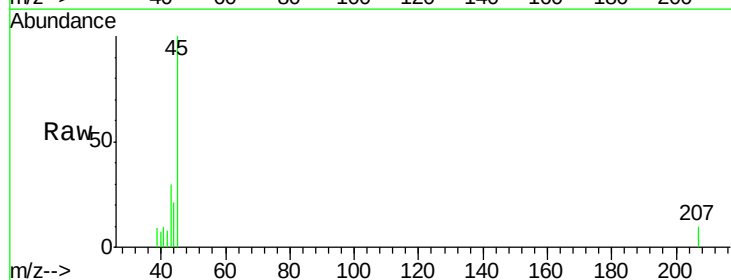
Instrument :
MSVOA_N
ClientSampled :

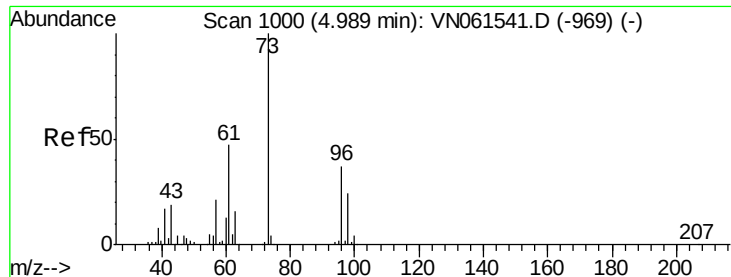
Tot Ion: 43 Resp: 696
Ion Ratio Lower Upper
43 100
58 45.5 27.2 40.8#



#18
Methyl Acetate
Concen: 0.726 ug/l
RT: 4.03 min Scan# 702
Delta R.T. -0.24 min
Lab File: VN061760.D
Acq: 11 Jun 2020 20:21

Tgt Ion: 43 Resp: 2233
Ion Ratio Lower Upper
43 100
74 0.0 23.2 34.8#

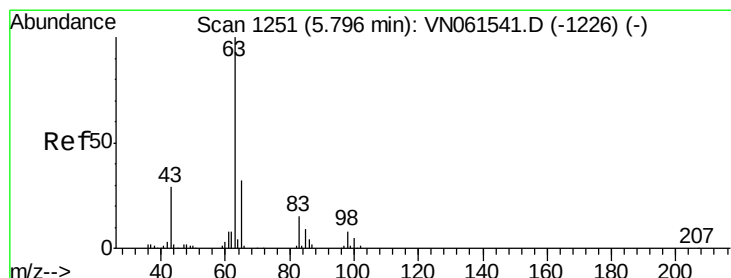
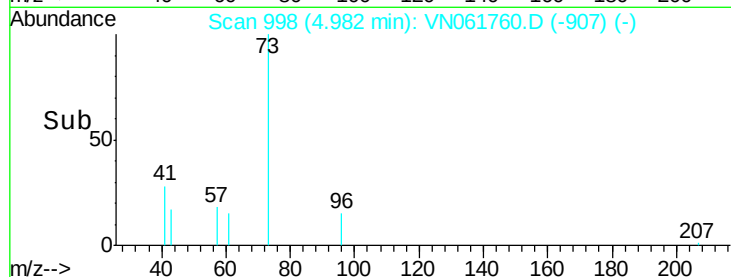
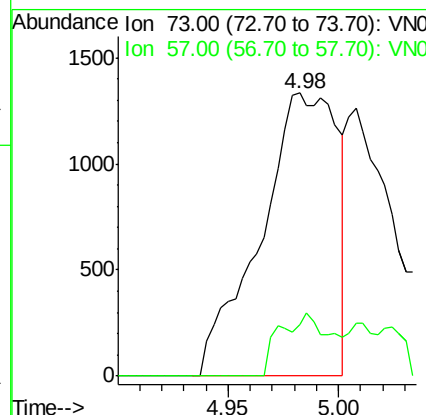
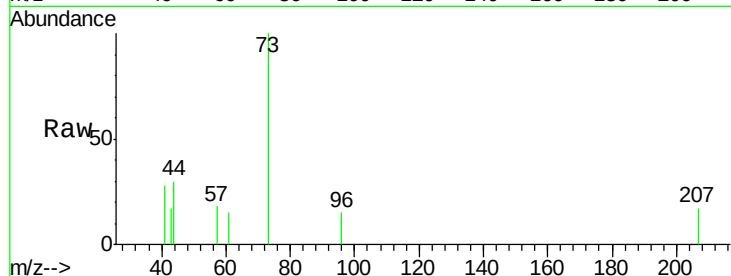




#19
Methyl tert-butyl Ether
Concen: 0.325 ug/l
RT: 4.98 min Scan# 998
Delta R.T. -0.01 min
Lab File: VN061760.D
Acq: 11 Jun 2020 20:21

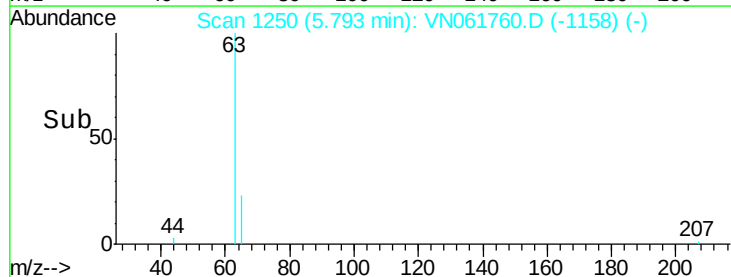
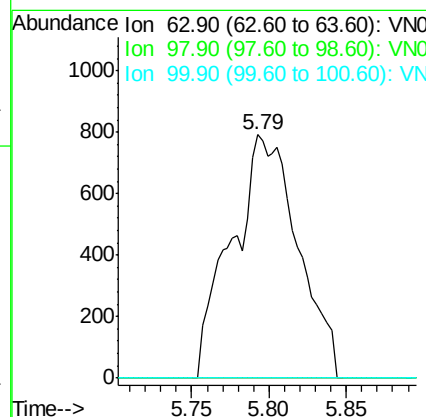
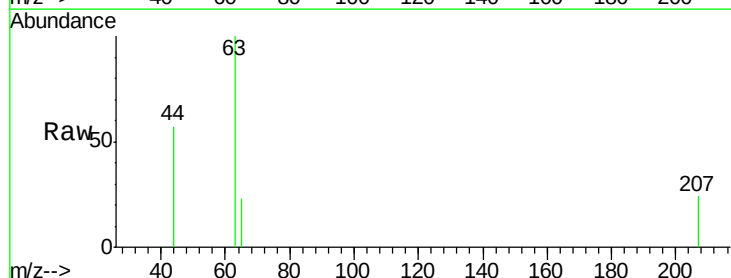
Instrument :
MSVOA_N
ClientSampled :

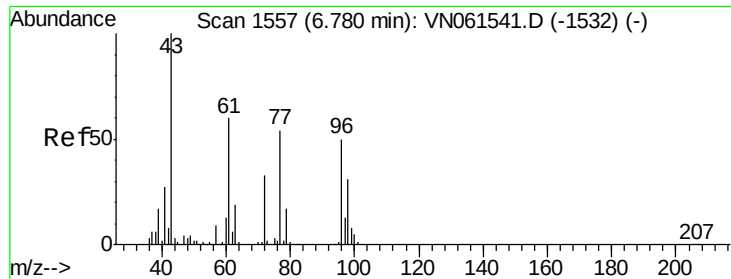
Tot Ion: 73 Resp: 3229
Ion Ratio Lower Upper
73 100
57 18.3 16.4 24.6



#24
1,1-Dichloroethane
Concen: 0.443 ug/l
RT: 5.79 min Scan# 1250
Delta R.T. -0.00 min
Lab File: VN061760.D
Acq: 11 Jun 2020 20:21

Tgt Ion: 63 Resp: 2359
Ion Ratio Lower Upper
63 100
98 0.0 3.8 11.4#
100 0.0 2.5 7.6#





#27

cis-1,2-Dichloroethene

Concen: 3.845 ug/l

RT: 6.78 min Scan# 1557

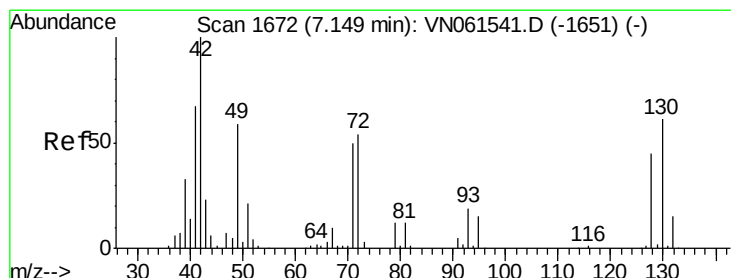
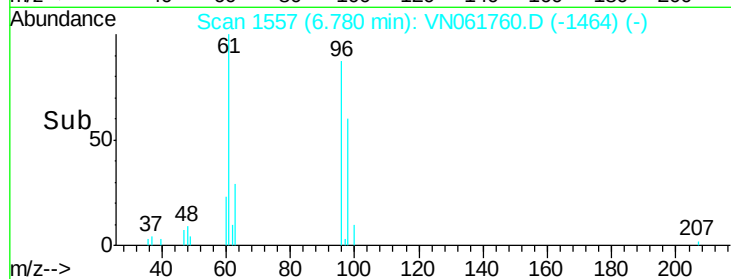
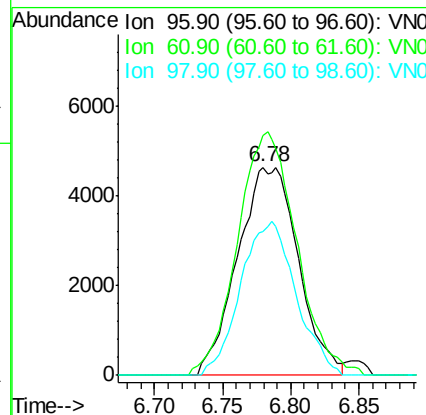
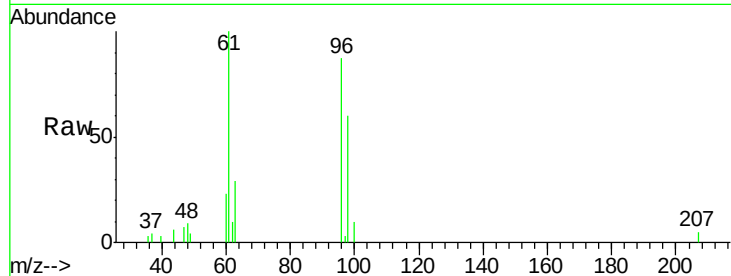
Delta R.T. 0.00 min

Lab File: VN061760.D

Acq: 11 Jun 2020 20:21

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:	96	Resp:	14311
Ion	Ratio	Lower	Upper
96	100		
61	114.0	0.0	252.2
98	67.4	0.0	129.2



#28

Bromochloromethane

Concen: Below Cal

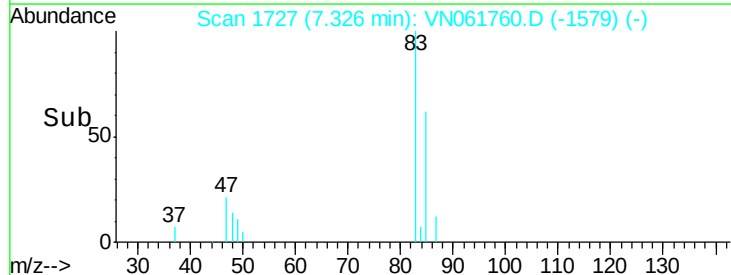
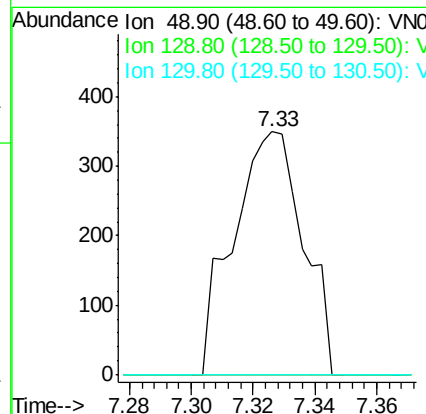
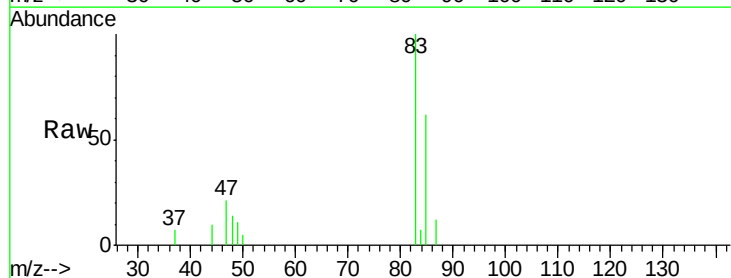
RT: 7.33 min Scan# 1727

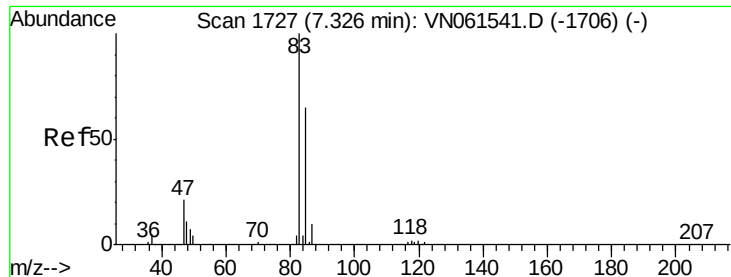
Delta R.T. 0.18 min

Lab File: VN061760.D

Acq: 11 Jun 2020 20:21

Tgt Ion:	49	Resp:	548
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.8
130	0.0	78.8	118.2#

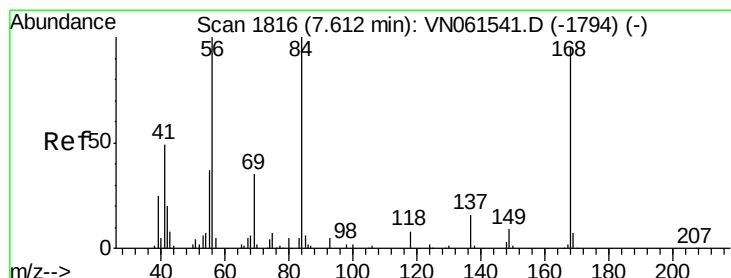
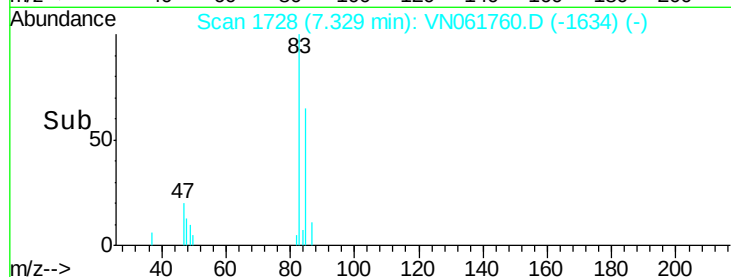
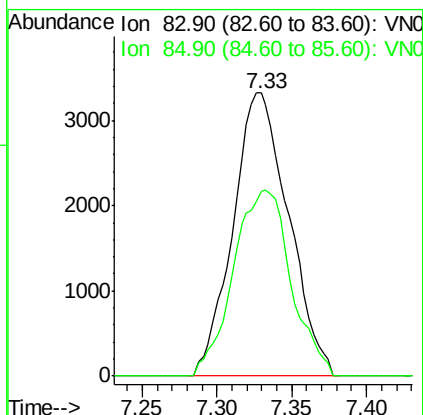
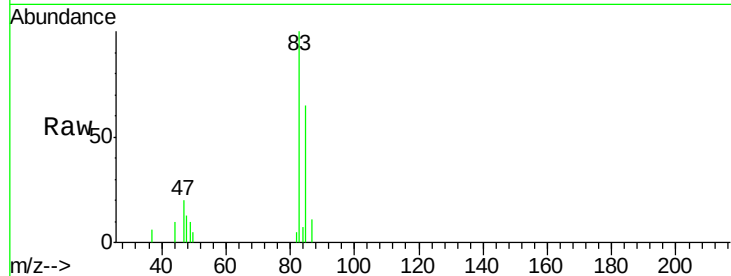




#30
Chloroform
Concen: 1.458 ug/l
RT: 7.33 min Scan# 1728
Delta R.T. 0.00 min
Lab File: VN061760.D
Acq: 11 Jun 2020 20:21

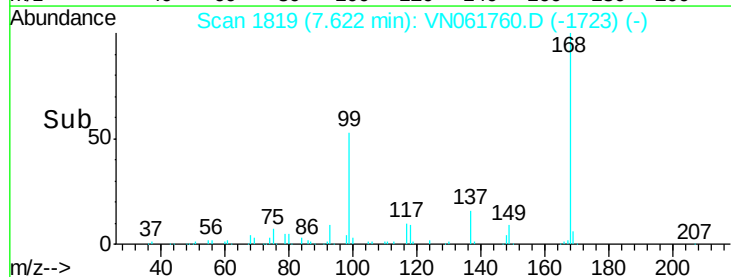
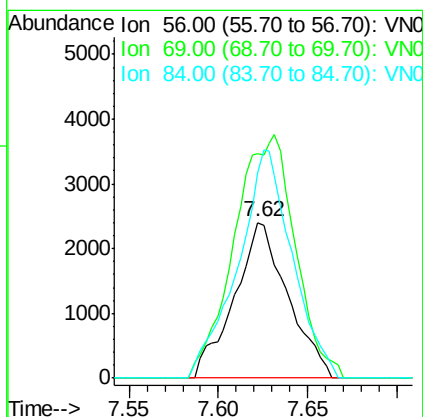
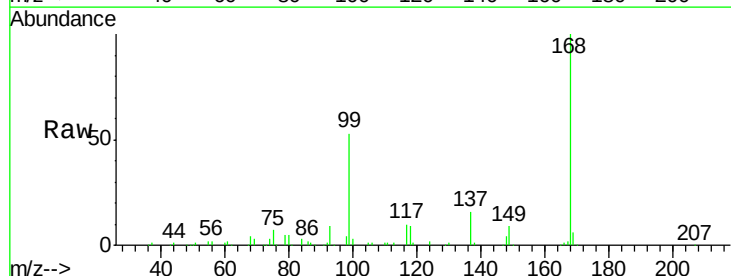
Instrument :
MSVOA_N
ClientSampleId :

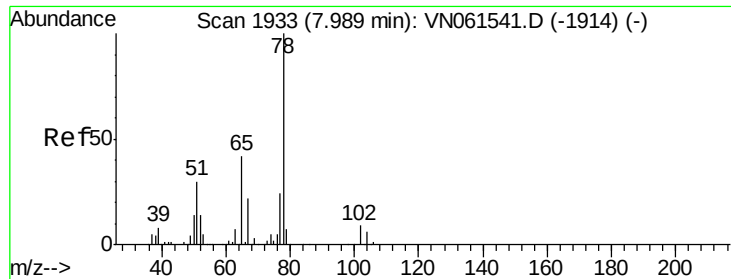
Tot Ion: 83 Resp: 8591
Ion Ratio Lower Upper
83 100
85 65.3 51.7 77.5



#31
Cyclohexane
Concen: 1.049 ug/l
RT: 7.62 min Scan# 1819
Delta R.T. 0.01 min
Lab File: VN061760.D
Acq: 11 Jun 2020 20:21

Tgt Ion: 56 Resp: 5022
Ion Ratio Lower Upper
56 100
69 144.0 27.8 41.8#
84 131.6 79.9 119.9#

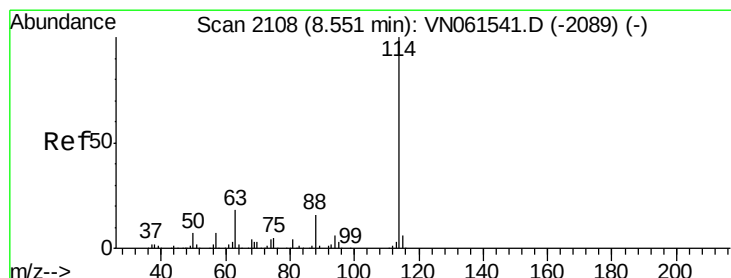
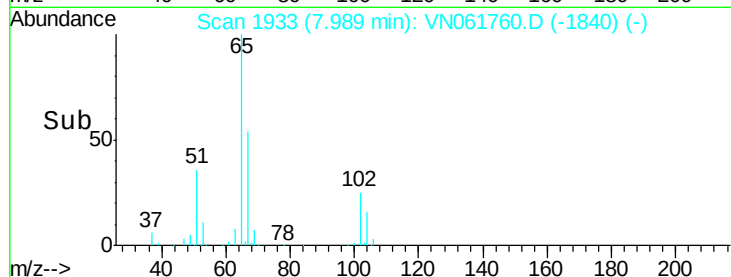
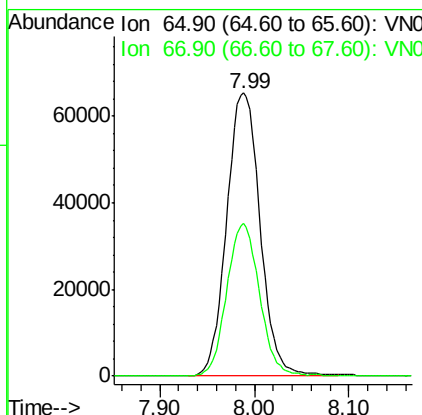
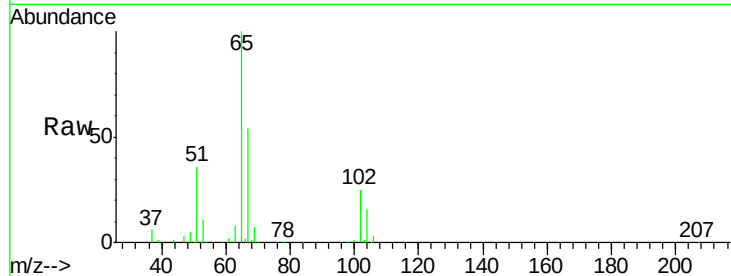




#33
 1,2-Dichloroethane-d4
 Concen: 47.329 ug/l
 RT: 7.99 min Scan# 1933
 Delta R.T. 0.00 min
 Lab File: VN061760.D
 Acq: 11 Jun 2020 20:21

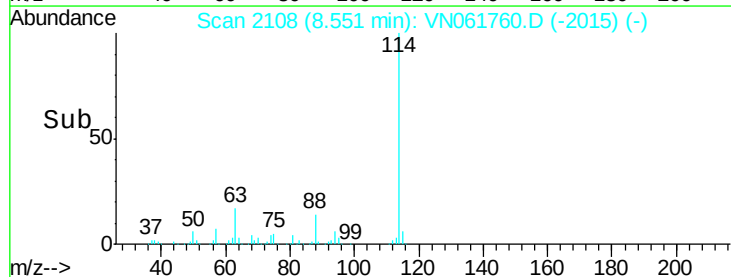
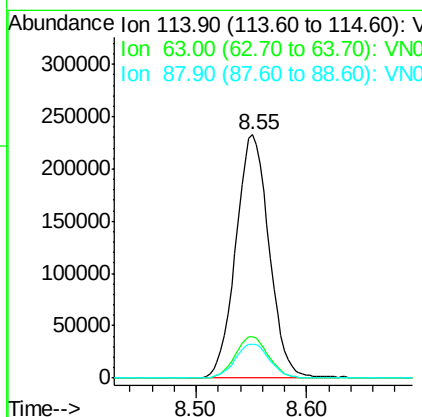
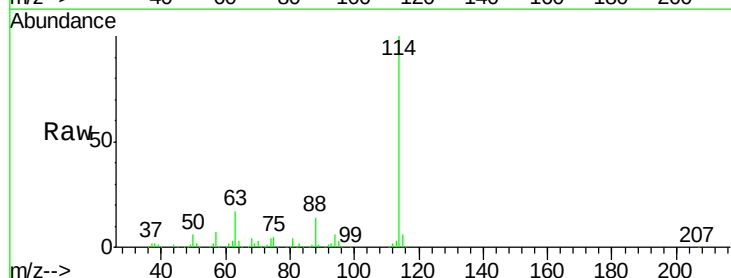
Instrument :
 MSVOA_N
 ClientSampleId :

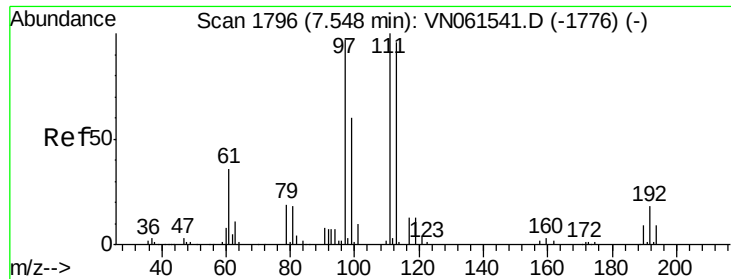
Tot Ion: 65 Resp: 160844
 Ion Ratio Lower Upper
 65 100
 67 52.5 0.0 104.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. 0.00 min
 Lab File: VN061760.D
 Acq: 11 Jun 2020 20:21

Tgt Ion: 114 Resp: 486014
 Ion Ratio Lower Upper
 114 100
 63 17.0 0.0 35.8
 88 14.1 0.0 31.0

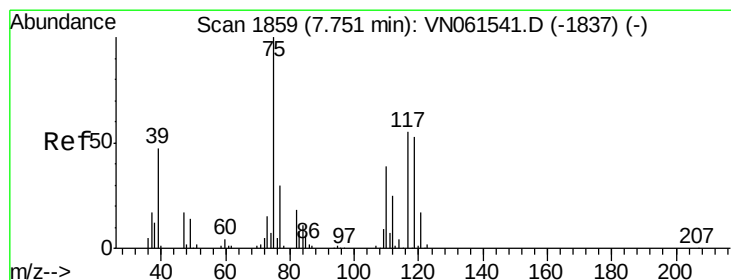
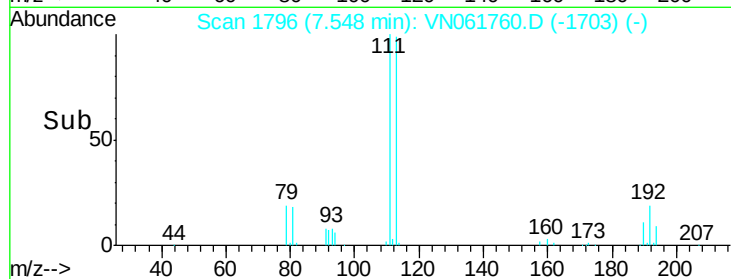
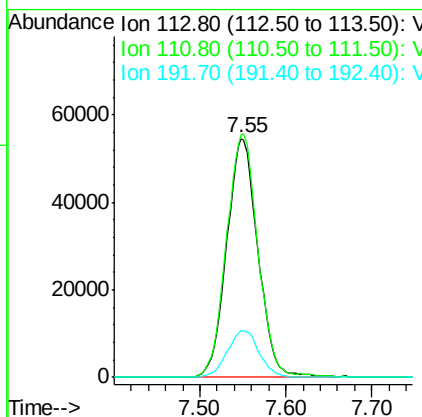
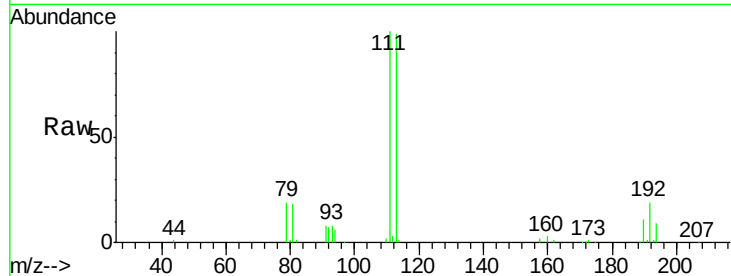




#35
 Dibromofluoromethane
 Concen: 55.851 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. 0.00 min
 Lab File: VN061760.D
 Acq: 11 Jun 2020 20:21

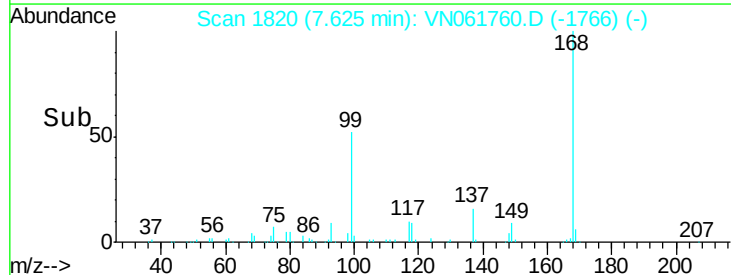
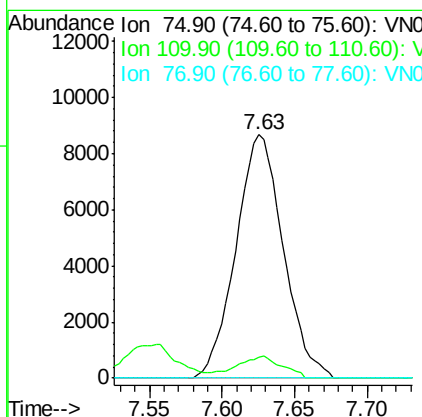
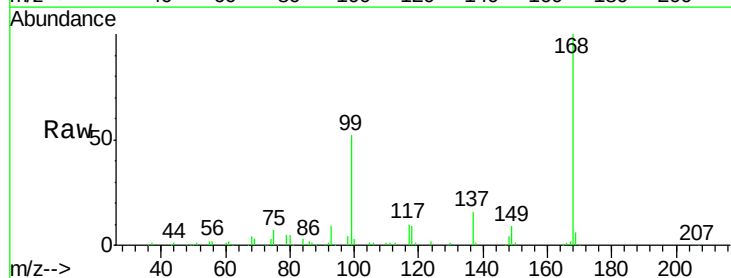
Instrument :
 MSVOA_N
 ClientSampleId :

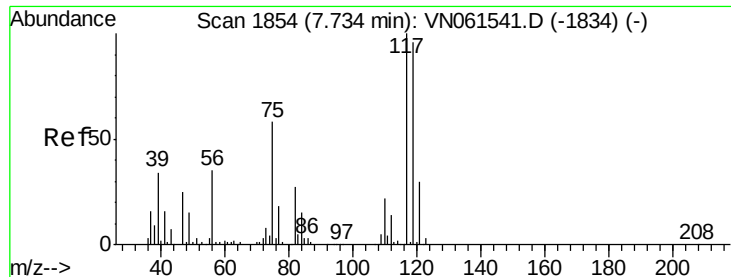
Tot Ion:113 Resp: 137699
 Ion Ratio Lower Upper
 113 100
 111 103.0 83.4 125.0
 192 19.9 15.4 23.2



#36
 1,1-Dichloropropene
 Concen: 4.571 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN061760.D
 Acq: 11 Jun 2020 20:21

Tgt Ion: 75 Resp: 19666
 Ion Ratio Lower Upper
 75 100
 110 8.5 19.5 58.5#
 77 0.0 24.7 37.1#





#38

Carbon Tetrachloride

Concen: 6.680 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.11 min

Lab File: VN061760.D

Acq: 11 Jun 2020 20:21

Instrument :

MSVOA_N

ClientSampleId :

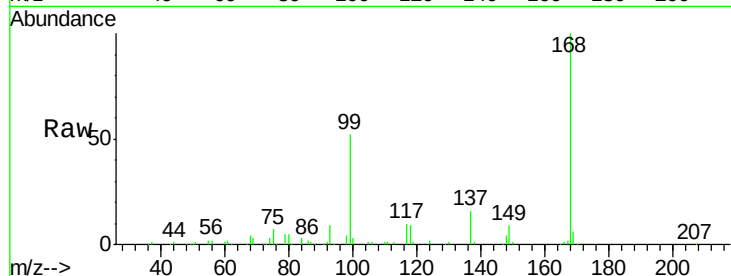
Tot Ion:117 Resp: 27724

Ion Ratio Lower Upper

117 100

119 5.9 76.5 114.7#

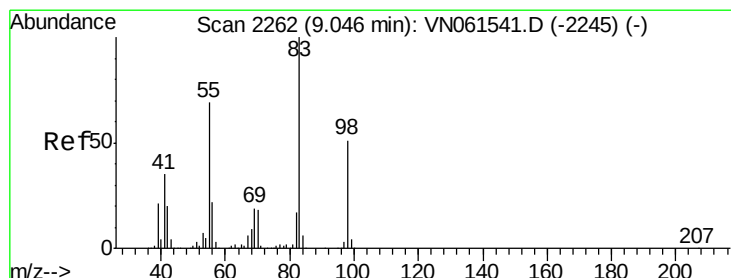
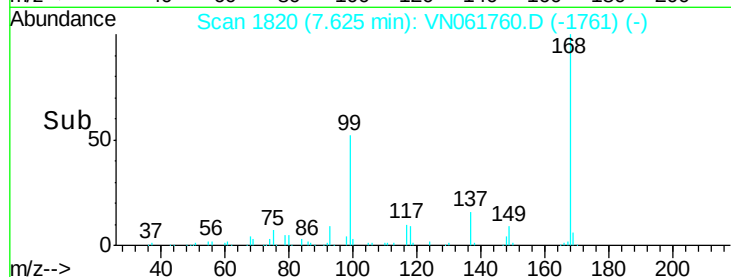
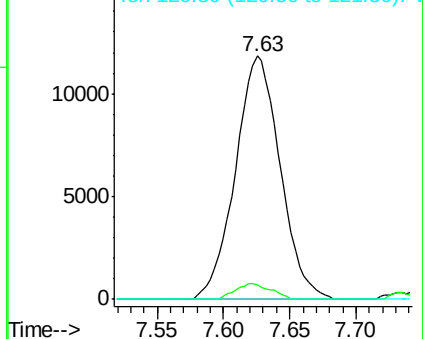
121 0.0 24.1 36.1#



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



#39

Methylcyclohexane

Concen: 1.602 ug/l

RT: 8.80 min Scan# 2186

Delta R.T. -0.24 min

Lab File: VN061760.D

Acq: 11 Jun 2020 20:21

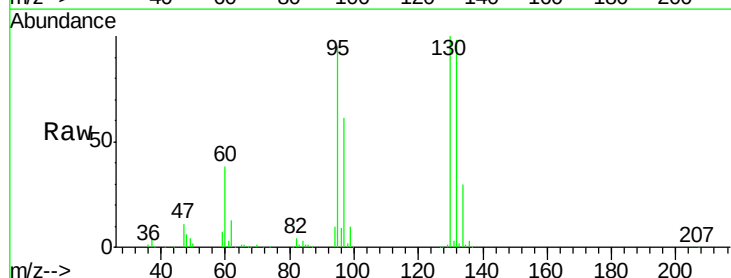
Tgt Ion: 83 Resp: 8495

Ion Ratio Lower Upper

83 100

55 0.0 54.9 82.3#

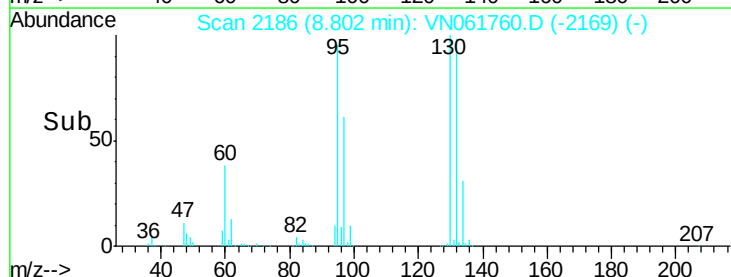
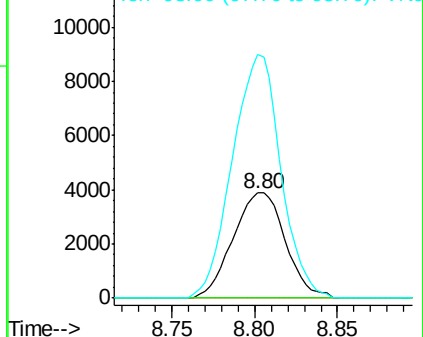
98 232.3 41.0 61.4#

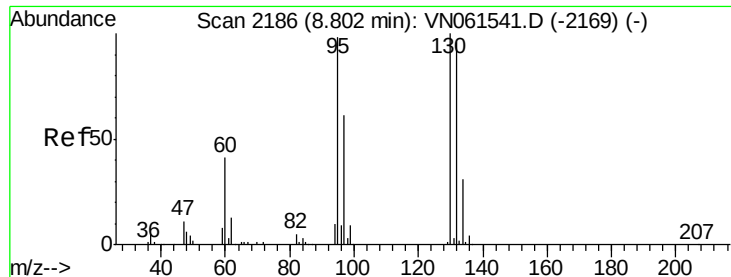


Abundance Ion 83.00 (82.70 to 83.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 98.00 (97.70 to 98.70): VNO





#44

Trichloroethene

Concen: 188.086 ug/l

RT: 8.80 min Scan# 2186

Delta R.T. 0.00 min

Lab File: VN061760.D

Acq: 11 Jun 2020 20:21

Instrument :

MSVOA_N

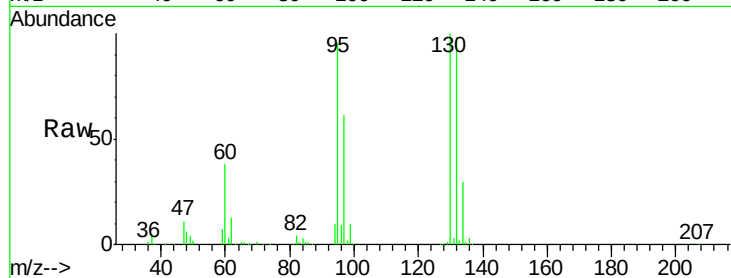
ClientSampled :

Tot Ion:130 Resp: 767346

Ion Ratio Lower Upper

130 100

95 94.5 0.0 196.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN0

8.80

400000

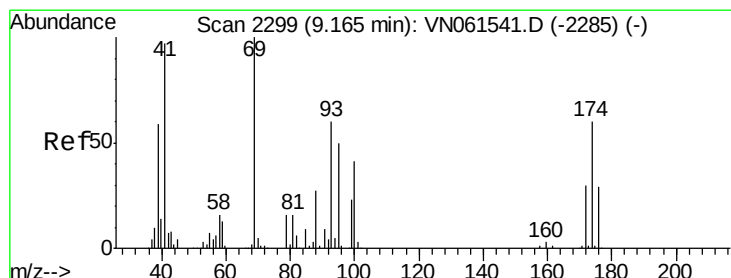
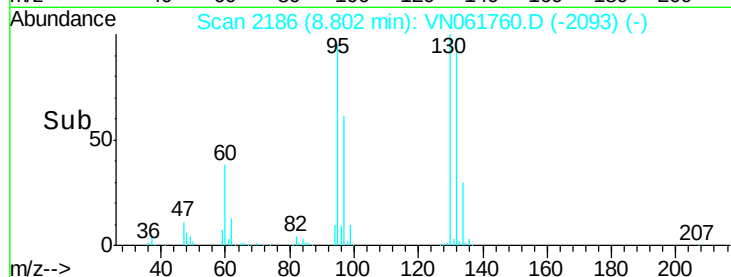
300000

200000

100000

0

Time-->



#49

1,4-Dioxane

Concen: 37.487 ug/l

RT: 9.17 min Scan# 2299

Delta R.T. 0.00 min

Lab File: VN061760.D

Acq: 11 Jun 2020 20:21

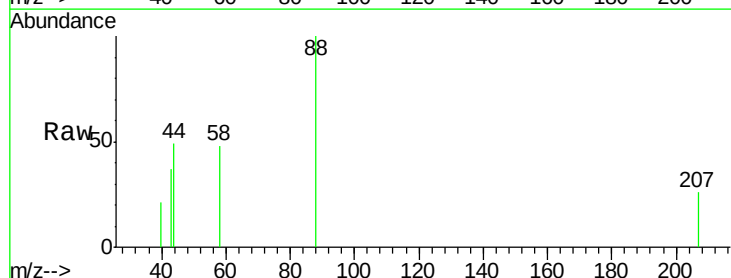
Tgt Ion: 88 Resp: 1629

Ion Ratio Lower Upper

88 100

43 19.3 23.1 34.7#

58 57.0 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

1000

800

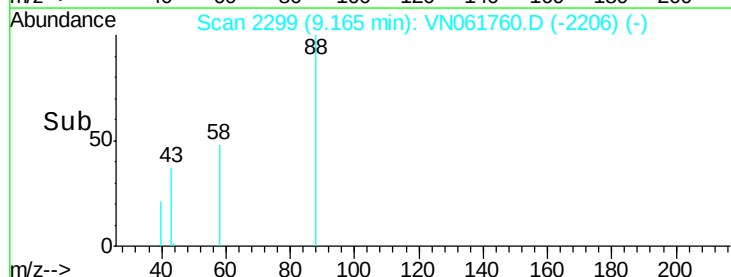
600

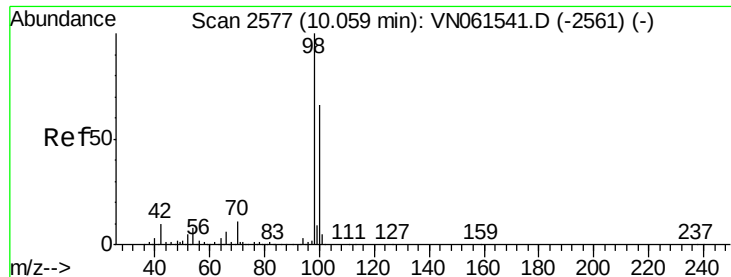
400

200

0

Time-->





#50

Toluene-d8

Concen: 51.237 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.00 min

Lab File: VN061760.D

Acq: 11 Jun 2020 20:21

Instrument :

MSVOA_N

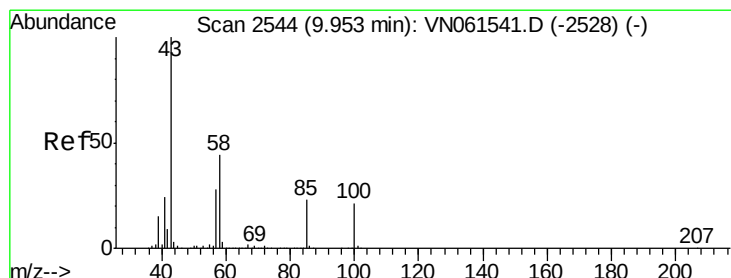
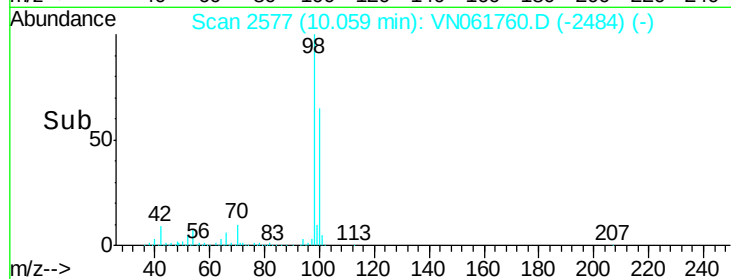
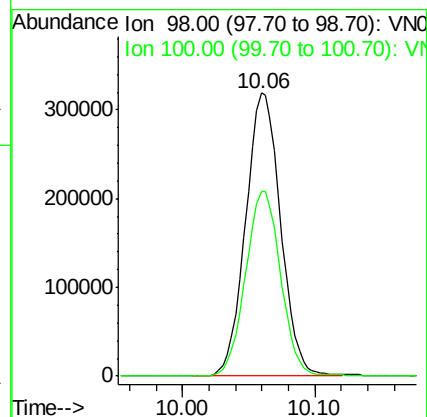
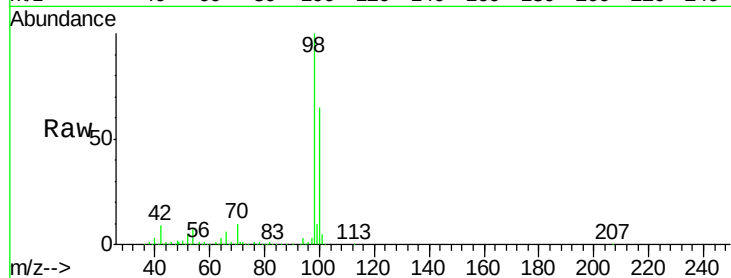
ClientSampled :

Tot Ion: 98 Resp: 585395

Ion Ratio Lower Upper

98 100

100 65.7 52.8 79.2



#51

4-Methyl-2-Pentanone

Concen: 0.541 ug/l

RT: 10.06 min Scan# 2576

Delta R.T. 0.10 min

Lab File: VN061760.D

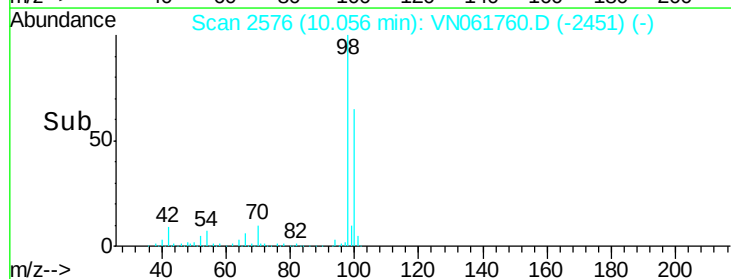
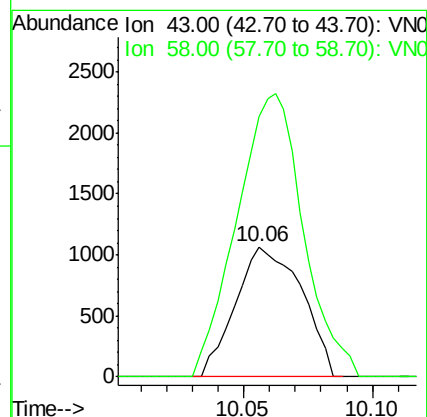
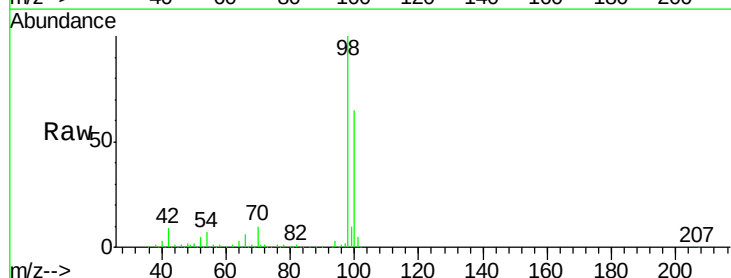
Acq: 11 Jun 2020 20:21

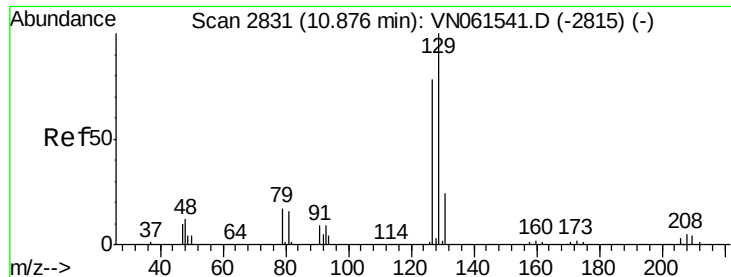
Tgt Ion: 43 Resp: 1902

Ion Ratio Lower Upper

43 100

58 219.3 35.0 52.6#





#60

Dibromochloromethane

Concen: 8.812 ug/l

RT: 10.60 min Scan# 2746

Delta R.T. -0.27 min

Lab File: VN061760.D

Acq: 11 Jun 2020 20:21

Instrument :

MSVOA_N

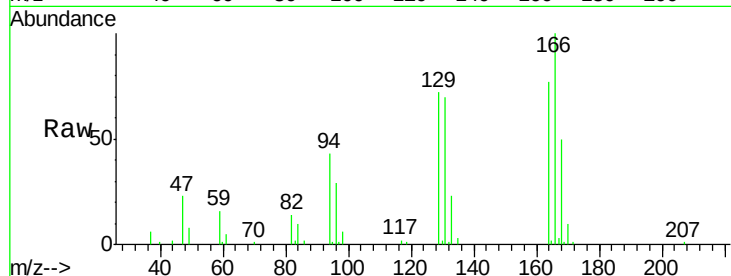
ClientSampleId :

Tot Ion:129 Resp: 34583

Ion Ratio Lower Upper

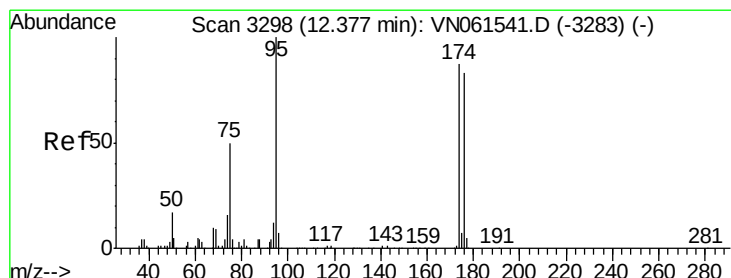
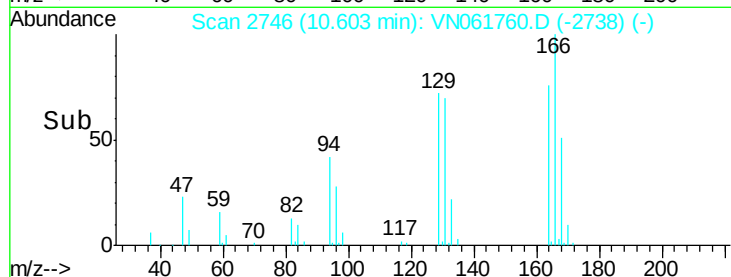
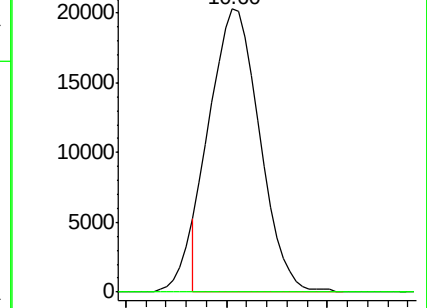
129 100

127 0.0 38.8 116.3#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 47.749 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.00 min

Lab File: VN061760.D

Acq: 11 Jun 2020 20:21

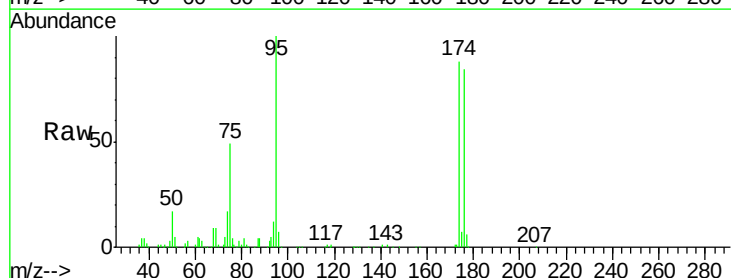
Tgt Ion: 95 Resp: 199032

Ion Ratio Lower Upper

95 100

174 89.1 0.0 172.8

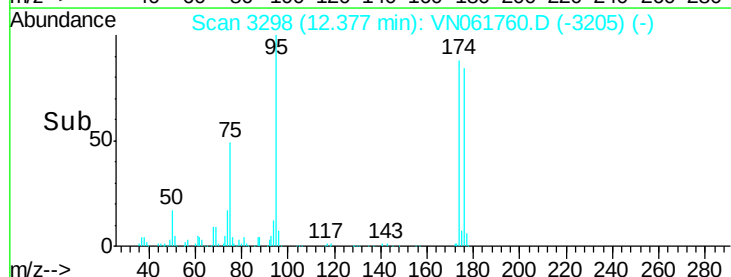
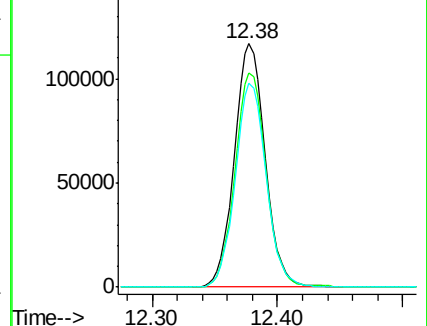
176 84.2 0.0 164.8

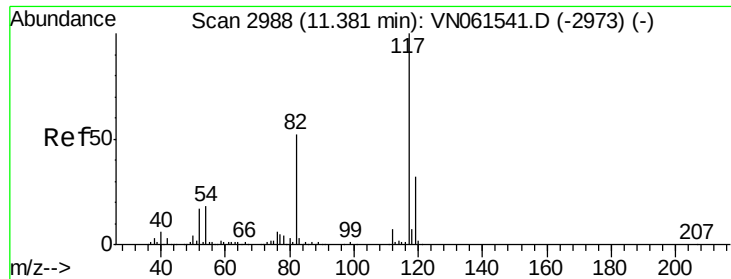


Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

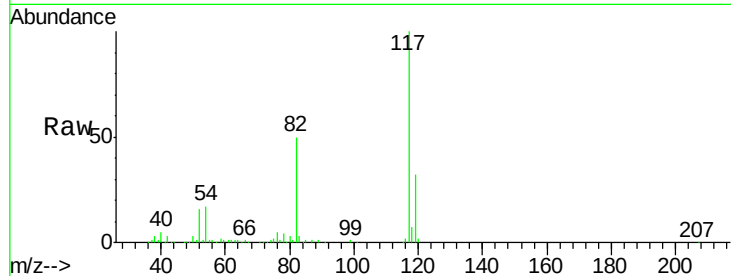




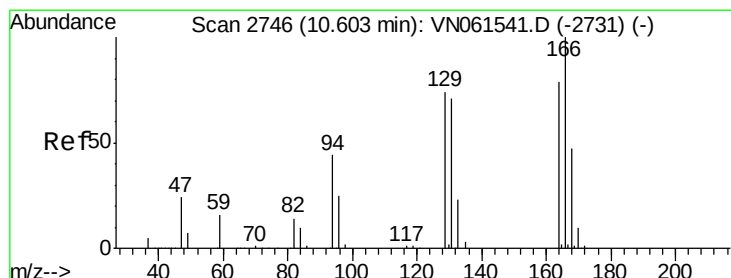
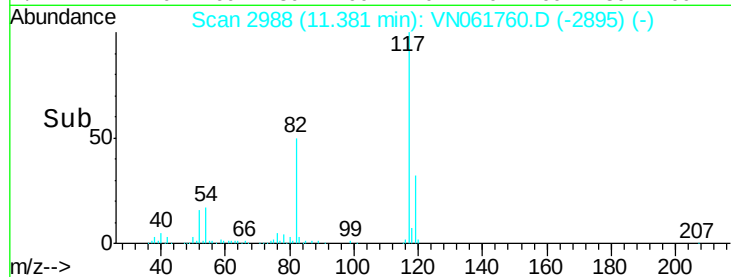
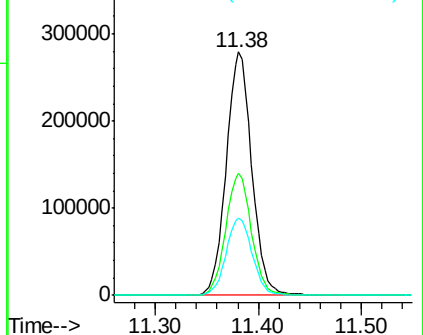
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. 0.00 min
Lab File: VN061760.D
Acq: 11 Jun 2020 20:21

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 482027
Ion Ratio Lower Upper
117 100
82 49.9 41.5 62.3
119 31.9 25.6 38.4

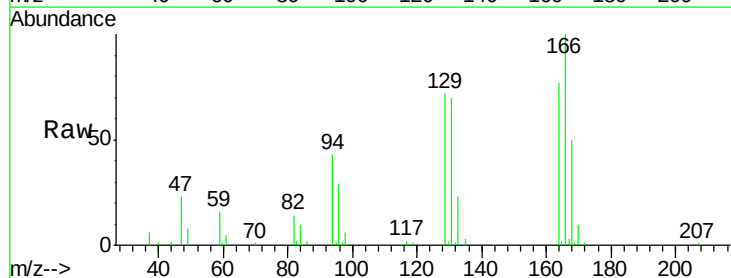


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

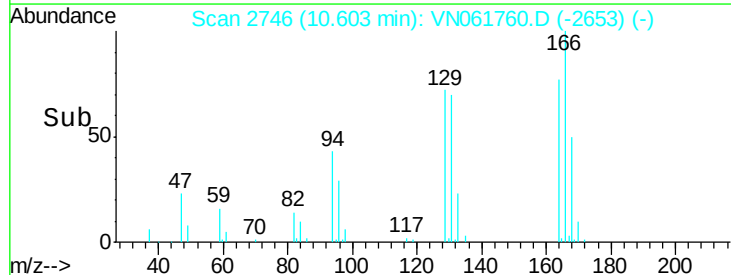
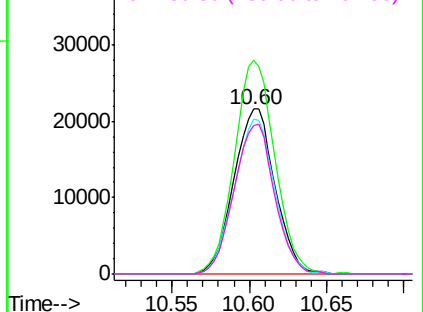


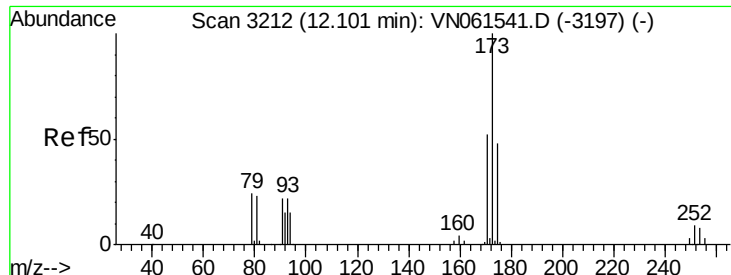
#64
Tetrachloroethene
Concen: 8.828 ug/l
RT: 10.60 min Scan# 2746
Delta R.T. 0.00 min
Lab File: VN061760.D
Acq: 11 Jun 2020 20:21

Tgt Ion:164 Resp: 40054
Ion Ratio Lower Upper
164 100
166 129.5 101.5 152.3
129 93.9 74.9 112.3
131 90.2 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: 0.510 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.28 min

Lab File: VN061760.D

Acq: 11 Jun 2020 20:21

Instrument :

MSVOA_N

ClientSampled :

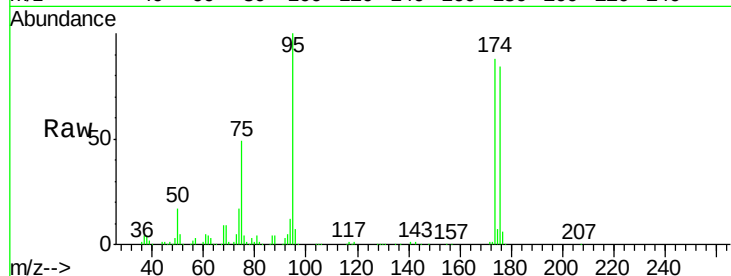
Tot Ion:173 Resp: 1466

Ion Ratio Lower Upper

173 100

175 754.6 24.4 73.2#

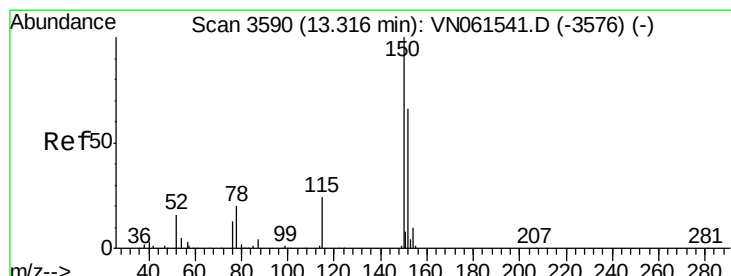
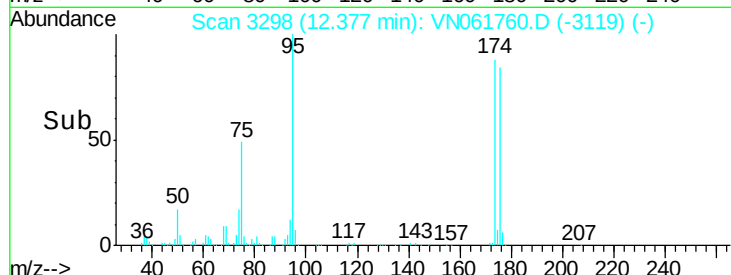
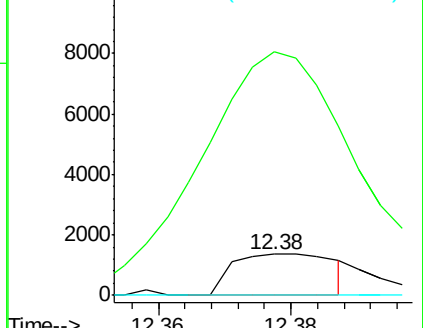
254 0.0 0.0 0.0



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: VN061760.D

Acq: 11 Jun 2020 20:21

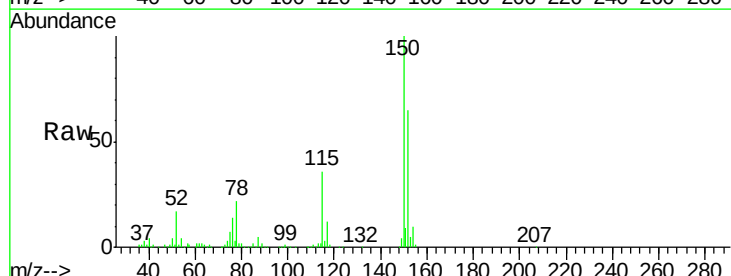
Tgt Ion:152 Resp: 213693

Ion Ratio Lower Upper

152 100

115 55.0 28.0 84.0

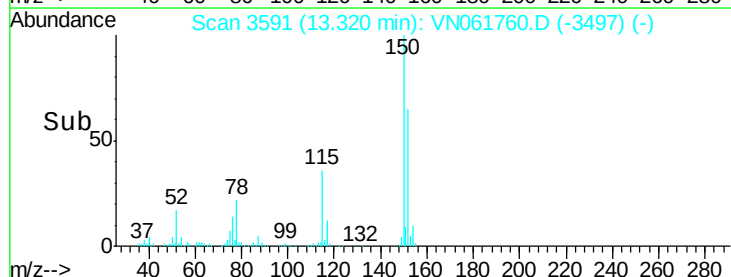
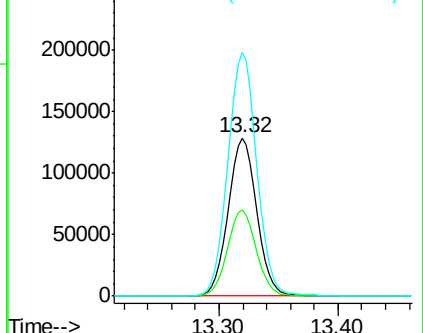
150 156.4 0.0 344.0

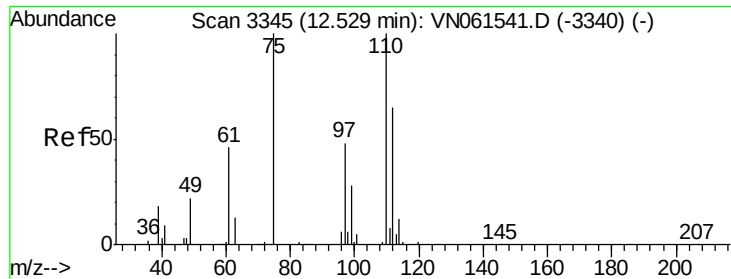


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 25.100 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN061760.D

Acq: 11 Jun 2020 20:21

Instrument :

MSVOA_N

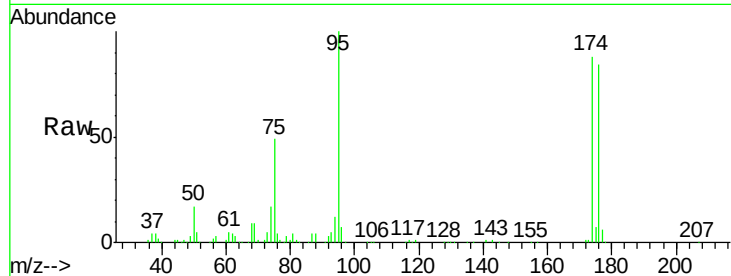
ClientSampled :

Tot Ion: 75 Resp: 97532

Ion Ratio Lower Upper

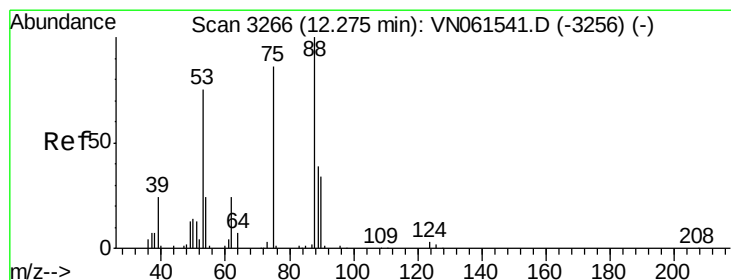
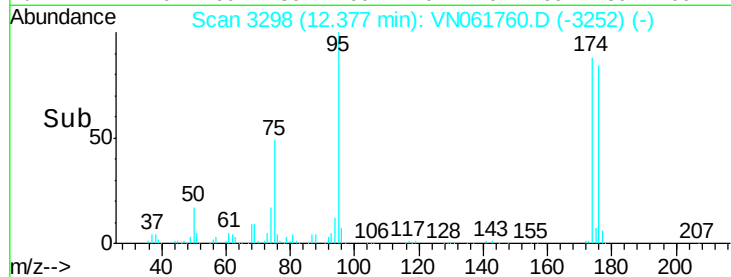
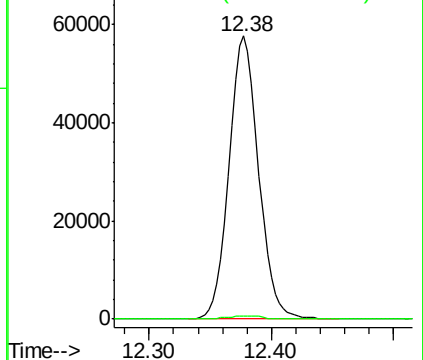
75 100

77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#81

trans-1,4-Dichloro-2-butene

Concen: 64.187 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN061760.D

Acq: 11 Jun 2020 20:21

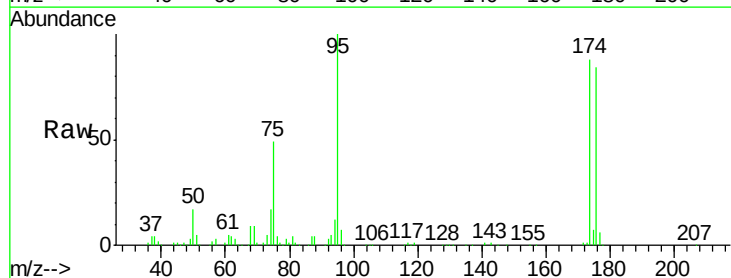
Tgt Ion: 75 Resp: 97532

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

