

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052020\
 Data File : VN061507.D
 Acq On : 20 May 2020 17:50
 Operator : JC/MD
 Sample : L2676-02DL 4X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: May 21 01:12:49 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N051820W.M
 Quant Title : SW846 8260
 QLast Update : Mon May 18 13:09:55 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	279637	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	509594	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	489364	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	210124	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	186954	44.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.60%	
35) Dibromofluoromethane	7.55	113	144400	54.09	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.18%	
50) Toluene-d8	10.06	98	626255	50.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.16%	
62) 4-Bromofluorobenzene	12.37	95	234738	50.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.48%	

Target Compounds

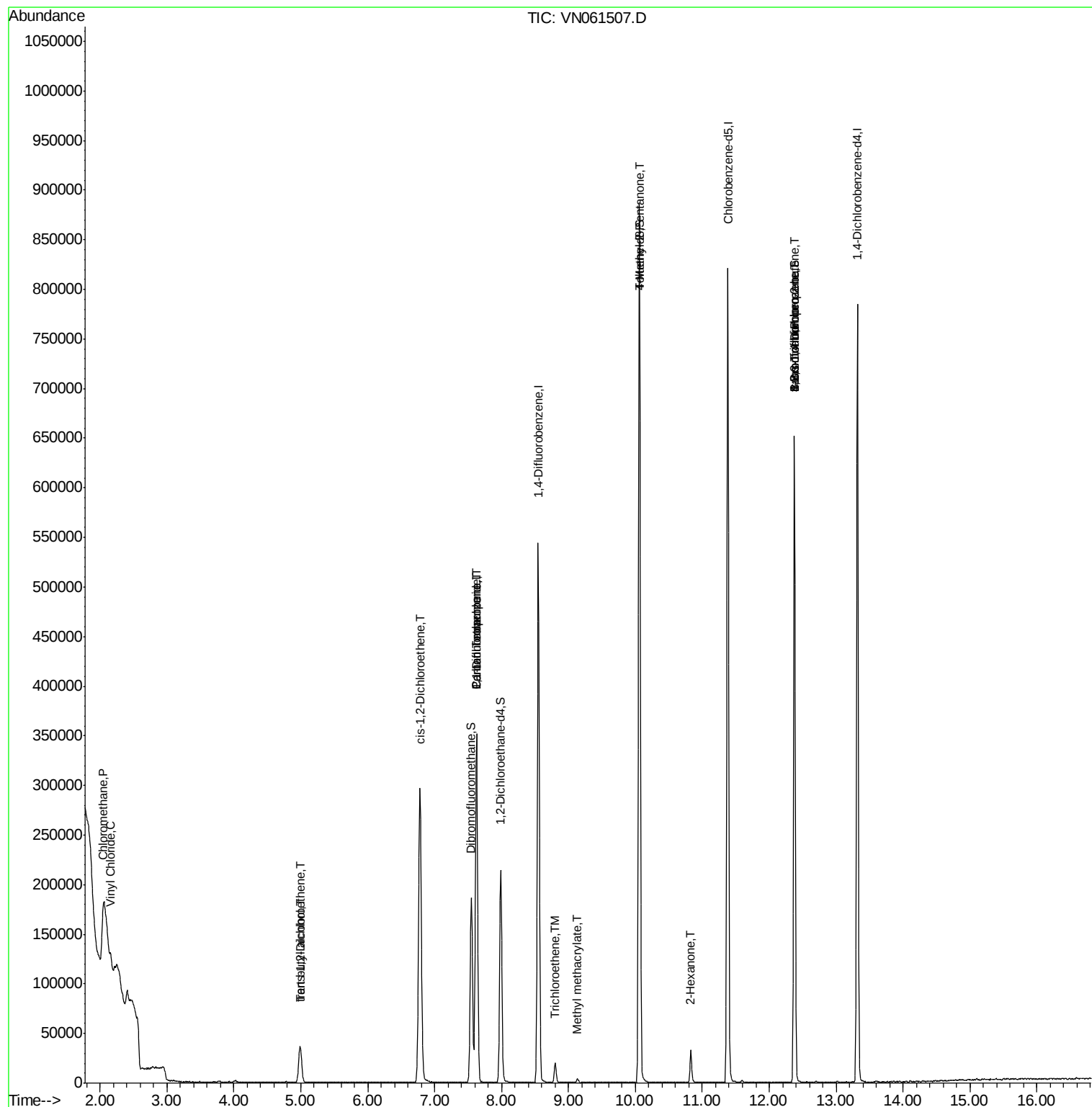
					Qvalue	
3) Chloromethane	2.04	50	885	0.233	ug/l #	87
4) Vinyl Chloride	2.16	62	6349	1.170	ug/l #	87
5) Bromomethane	2.55	94	400	Below Cal	#	53
11) Tert butyl alcohol	4.98	59	741	1.541	ug/l #	73
16) Acetone	3.78	43	1261	Below Cal	#	43
17) Carbon Disulfide	4.00	76	448	Below Cal	#	75
18) Methyl Acetate	4.28	43	109	Below Cal	#	49
21) trans-1,2-Dichloroethene	4.99	96	25319	7.660	ug/l	91
27) cis-1,2-Dichloroethene	6.78	96	207249	53.083	ug/l	84
31) Cyclohexane	7.63	56	6082	Below Cal	#	29
36) 1,1-Dichloropropene	7.63	75	22235	4.666	ug/l #	49
38) Carbon Tetrachloride	7.63	117	29075	6.627	ug/l #	15
44) Trichloroethene	8.80	130	7102	1.888	ug/l	87
48) Methyl methacrylate	9.13	41	1275	0.366	ug/l #	41
51) 4-Methyl-2-Pentanone	10.06	43	2623	0.639	ug/l #	1
59) 2-Hexanone	10.83	43	5947	2.002	ug/l #	41
71) Bromoform	12.37	173	1726	2.616	ug/l #	1
76) 1,2,3-Trichloropropane	12.37	75	121933	27.044	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.37	75	121933	71.741	ug/l #	12

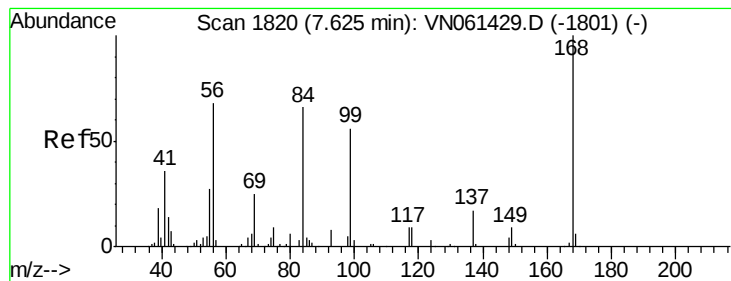
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Mon May 18 13:09:55 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: VN061507.D

Acq: 20 May 2020 17:50

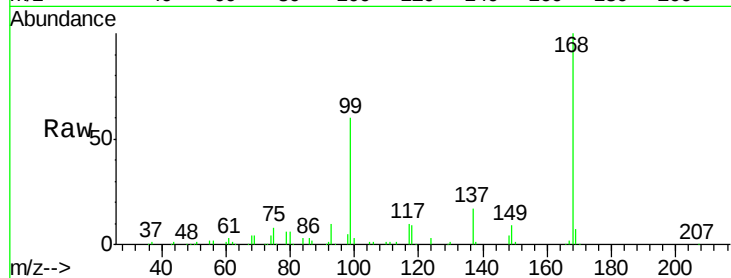
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 279637

Ion Ratio Lower Upper

168 100

99 59.6 51.1 76.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

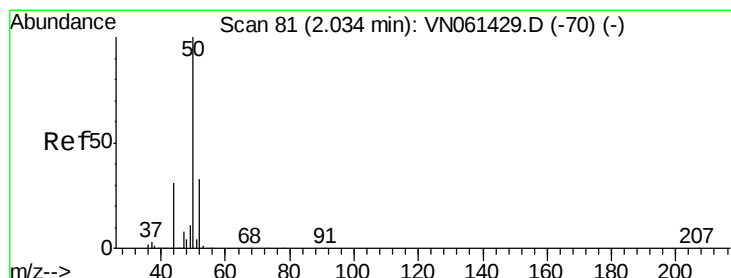
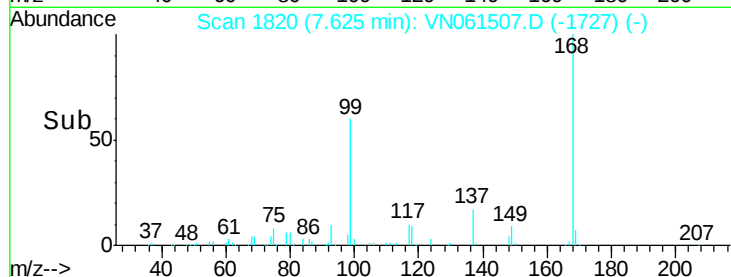
7.63

100000

50000

0

Time--> 7.50 7.55 7.60 7.65 7.70



#3

Chloromethane

Concen: 0.233 ug/l

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN061507.D

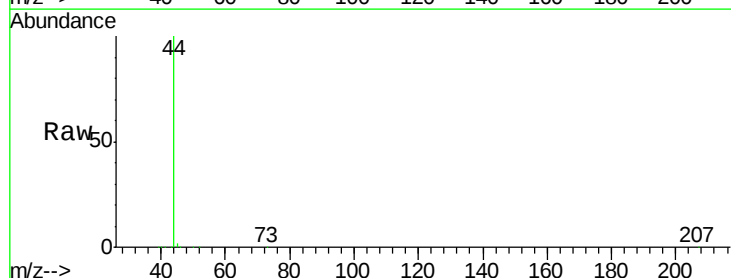
Acq: 20 May 2020 17:50

Tgt Ion: 50 Resp: 885

Ion Ratio Lower Upper

50 100

52 40.6 26.7 40.1#



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0

2.04

600

500

400

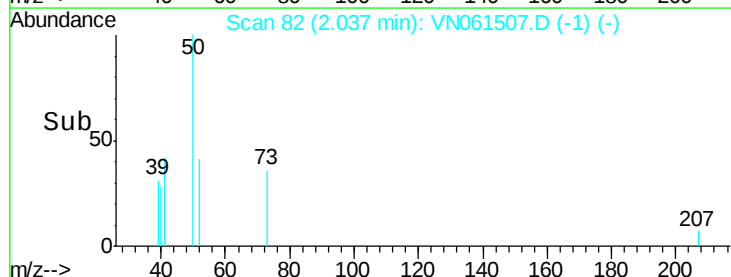
300

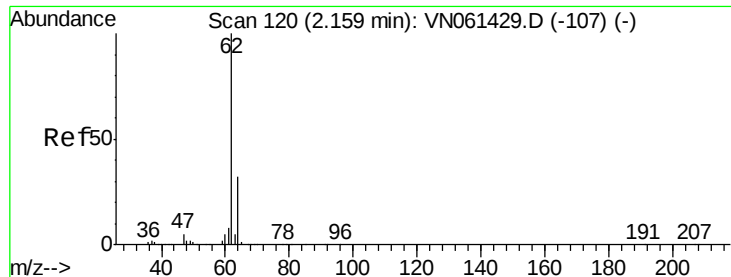
200

100

0

Time--> 2.00 2.05





#4

Vinyl Chloride

Concen: 1.170 ug/l

RT: 2.16 min Scan# 120

Delta R.T. 0.00 min

Lab File: VN061507.D

Acq: 20 May 2020 17:50

Instrument :

MSVOA_N

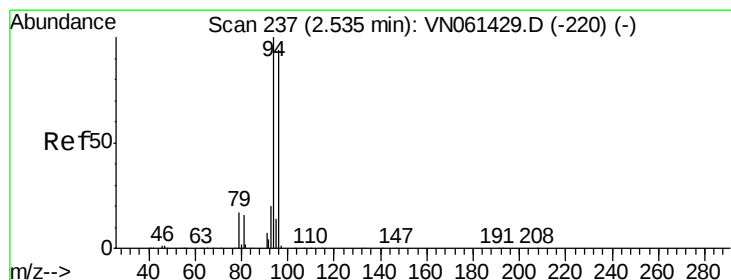
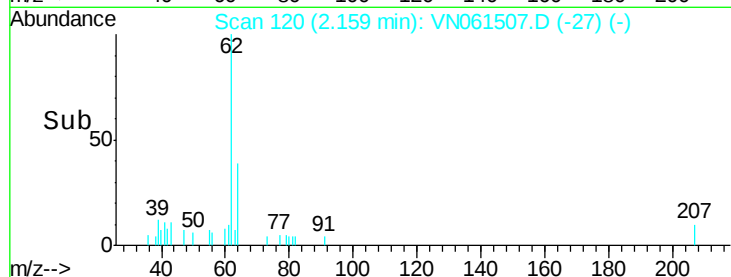
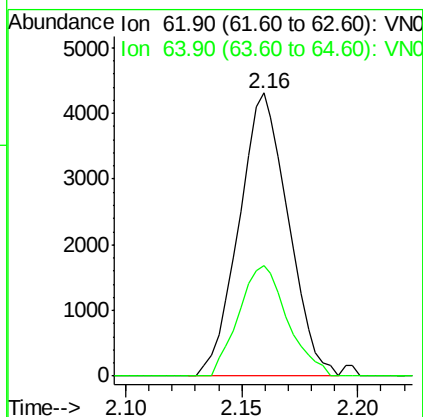
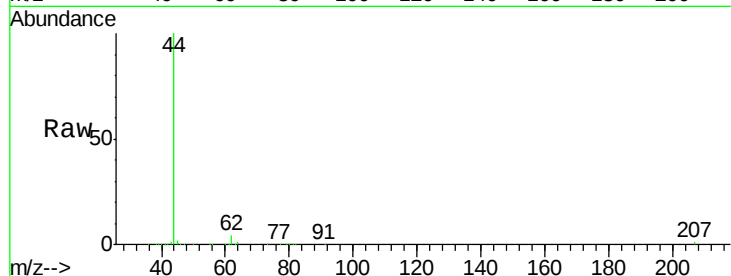
ClientSampleId :

Tot Ion: 62 Resp: 6349

Ion Ratio Lower Upper

62 100

64 38.8 25.3 37.9#



#5

Bromomethane

Concen: Below Cal

RT: 2.55 min Scan# 241

Delta R.T. 0.01 min

Lab File: VN061507.D

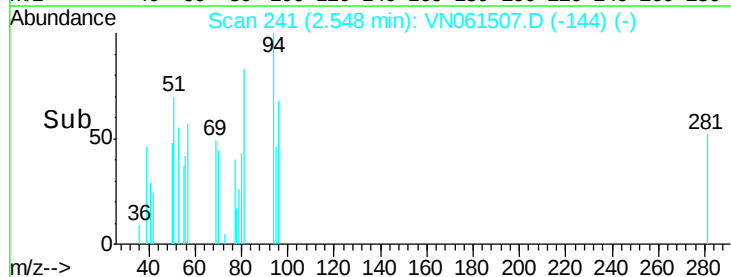
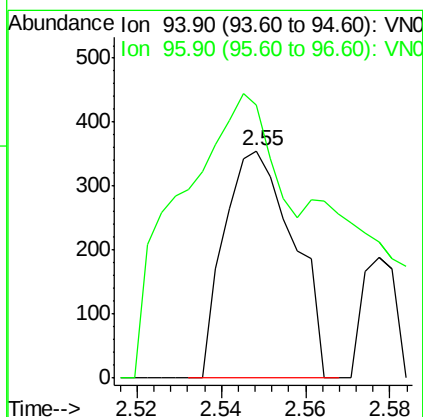
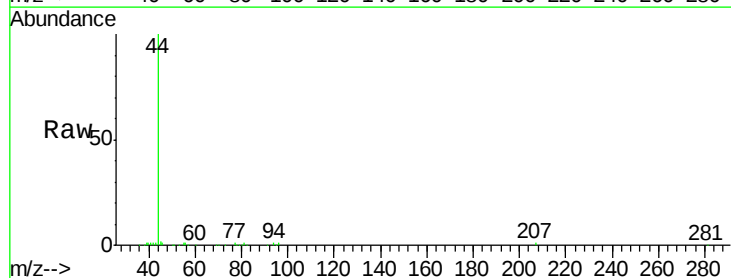
Acq: 20 May 2020 17:50

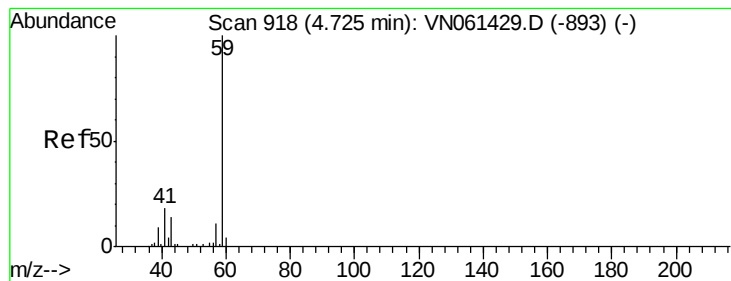
Tgt Ion: 94 Resp: 400

Ion Ratio Lower Upper

94 100

96 47.9 74.9 112.3#



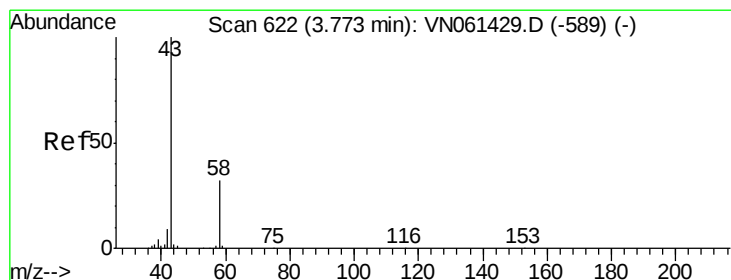
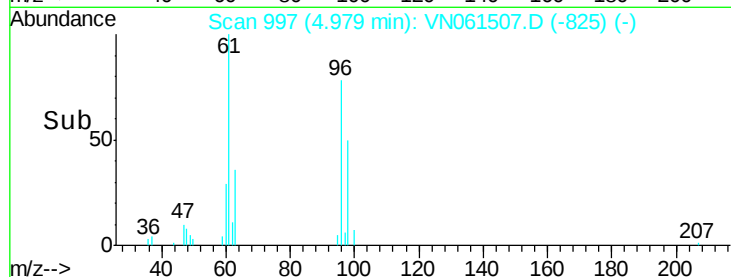
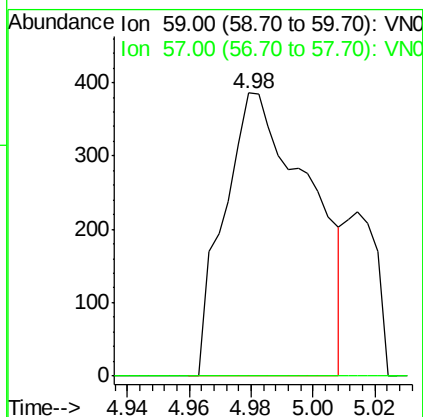
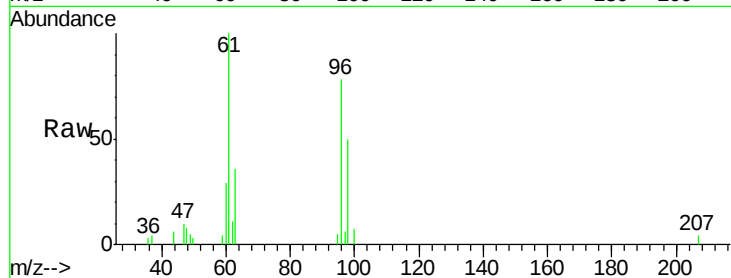


#11

Tert butyl alcohol
 Concen: 1.541 ug/l
 RT: 4.98 min Scan# 997
 Delta R.T. 0.25 min
 Lab File: VN061507.D
 Acq: 20 May 2020 17:50

Instrument :
 MSVOA_N
 ClientSampled :

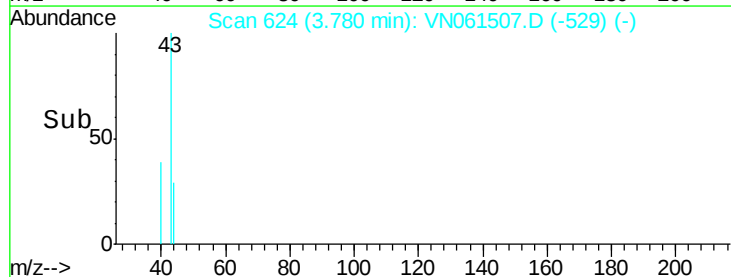
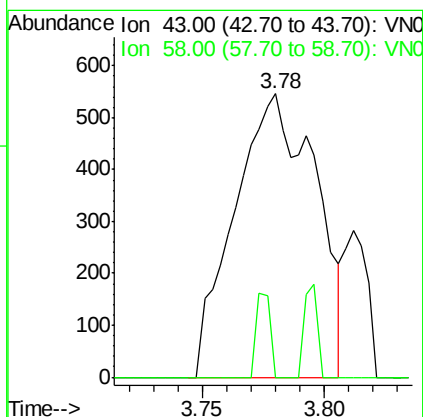
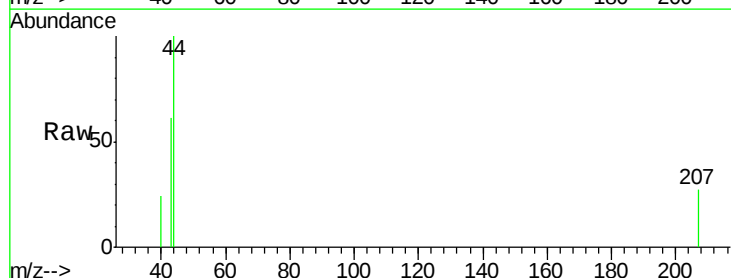
Tot Ion: 59 Resp: 741
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.2 12.2#

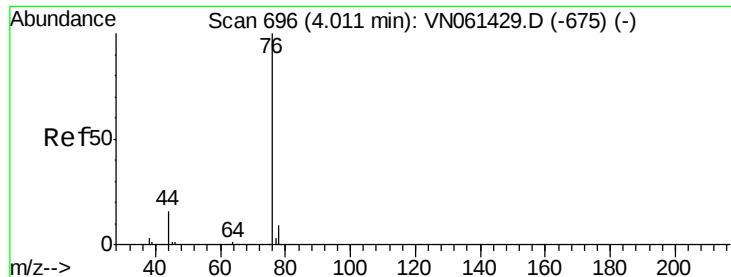


#16

Acetone
 Concen: Below Cal
 RT: 3.78 min Scan# 624
 Delta R.T. 0.01 min
 Lab File: VN061507.D
 Acq: 20 May 2020 17:50

Tgt Ion: 43 Resp: 1261
 Ion Ratio Lower Upper
 43 100
 58 0.0 25.6 38.4#





#17

Carbon Disulfide

Concen: Below Cal

RT: 4.00 min Scan# 694

Delta R.T. -0.01 min

Lab File: VN061507.D

Acq: 20 May 2020 17:50

Instrument :

MSVOA_N

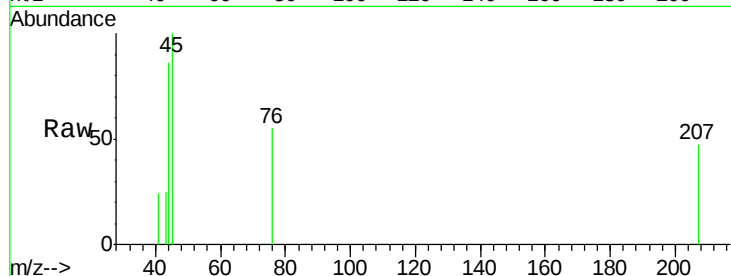
ClientSampled :

Tot Ion: 76 Resp: 448

Ion Ratio Lower Upper

76 100

78 0.0 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

4.00

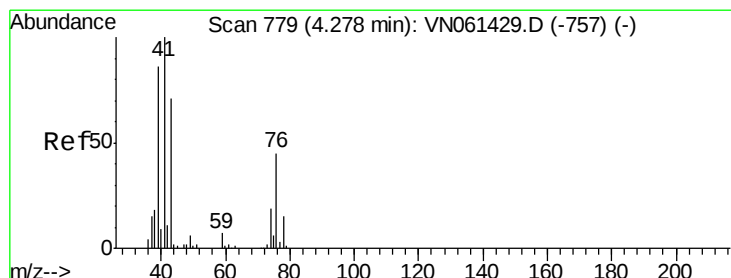
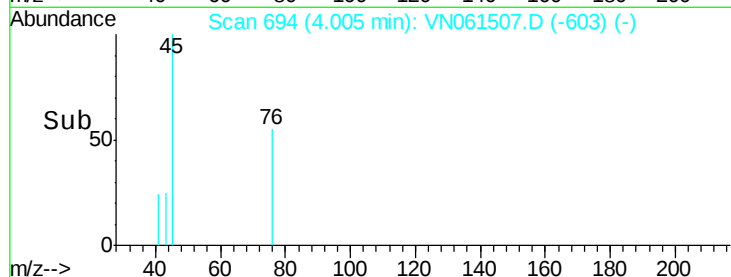
300

200

100

0

Time-->



#18

Methyl Acetate

Concen: Below Cal

RT: 4.28 min Scan# 779

Delta R.T. 0.00 min

Lab File: VN061507.D

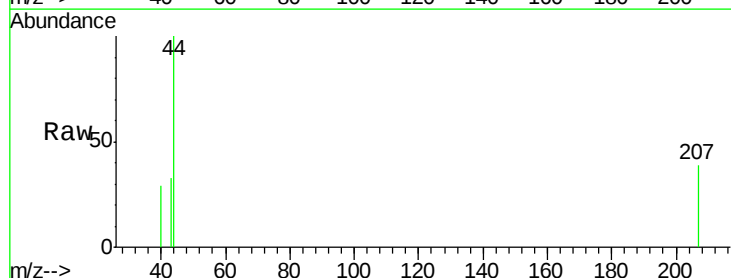
Acq: 20 May 2020 17:50

Tgt Ion: 43 Resp: 109

Ion Ratio Lower Upper

43 100

74 0.0 20.8 31.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

4.28

200

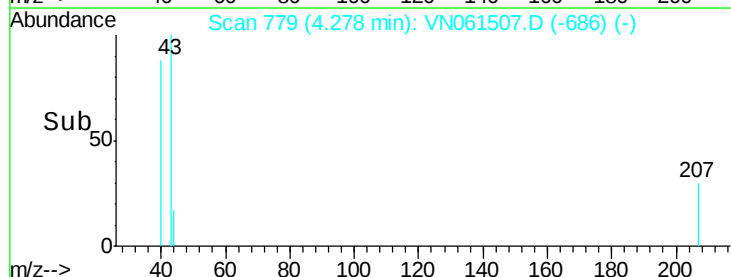
150

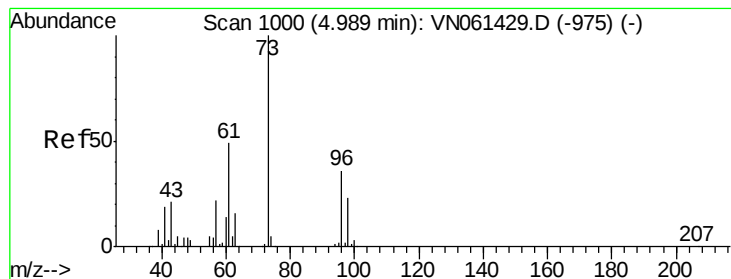
100

50

0

Time-->





#21

trans-1,2-Dichloroethene

Concen: 7.660 ug/l

RT: 4.99 min Scan# 1000

Delta R.T. 0.00 min

Lab File: VN061507.D

Acq: 20 May 2020 17:50

Instrument :

MSVOA_N

ClientSampled :

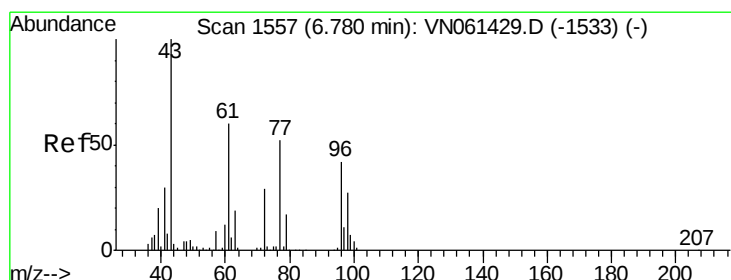
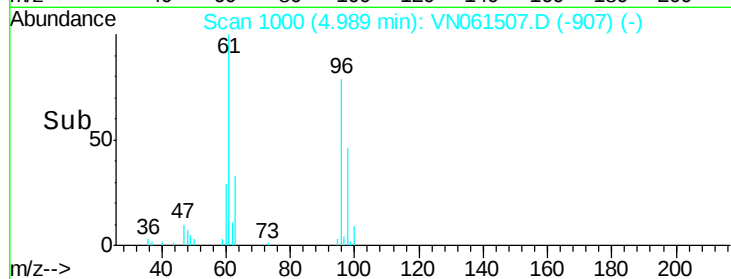
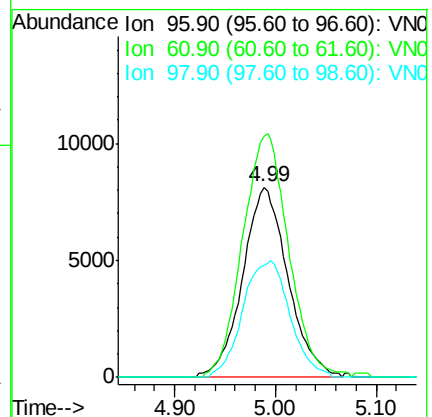
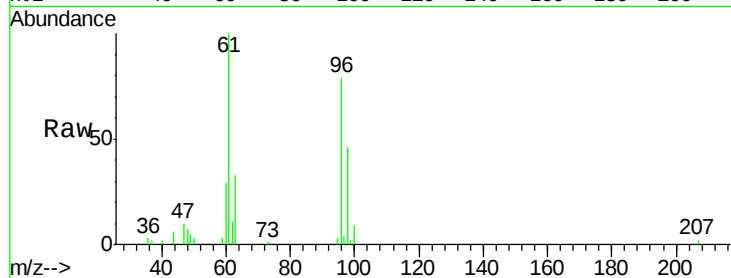
Tot Ion: 96 Resp: 25319

Ion Ratio Lower Upper

96 100

61 126.7 109.8 164.6

98 58.5 52.4 78.6



#27

cis-1,2-Dichloroethene

Concen: 53.083 ug/l

RT: 6.78 min Scan# 1558

Delta R.T. 0.00 min

Lab File: VN061507.D

Acq: 20 May 2020 17:50

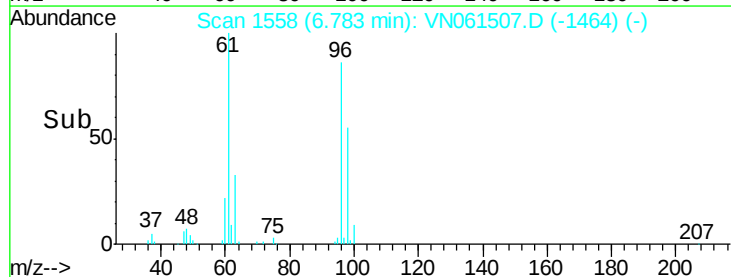
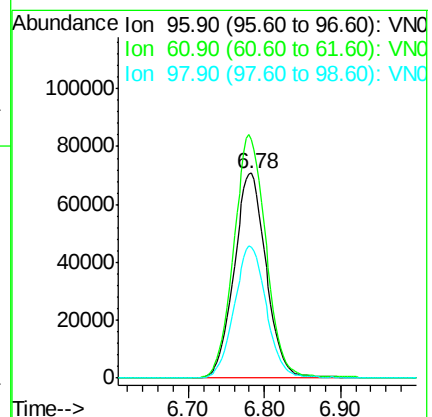
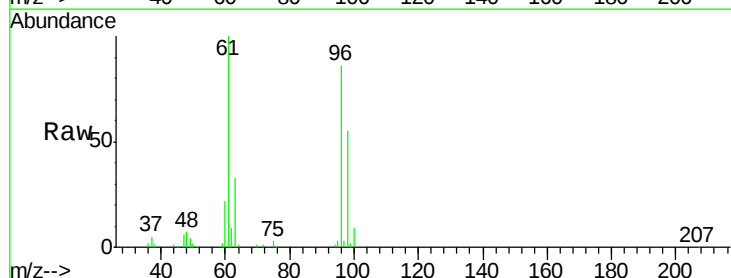
Tgt Ion: 96 Resp: 207249

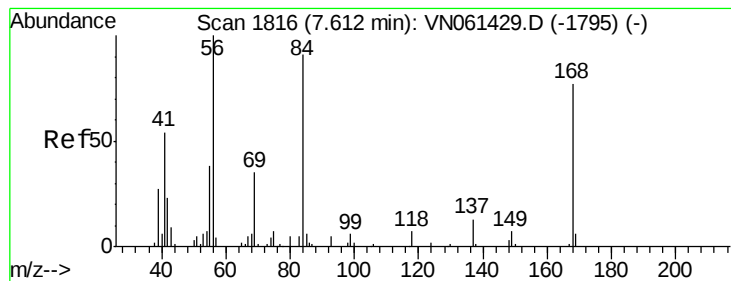
Ion Ratio Lower Upper

96 100

61 119.3 0.0 294.2

98 64.4 0.0 128.2





#31

Cyclohexane

Concen: Below Cal

RT: 7.63 min Scan# 1822

Delta R.T. 0.02 min

Lab File: VN061507.D

Acq: 20 May 2020 17:50

Instrument :

MSVOA_N

ClientSampleId :

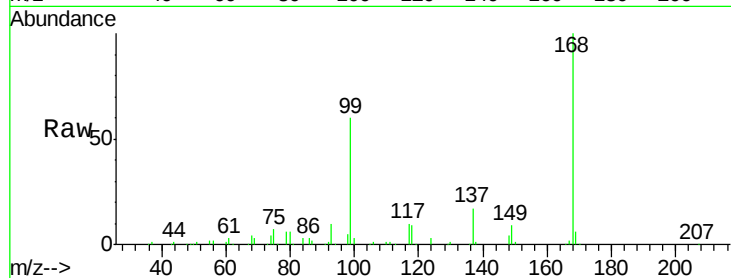
Tot Ion: 56 Resp: 6082

Ion Ratio Lower Upper

56 100

69 143.0 27.8 41.6#

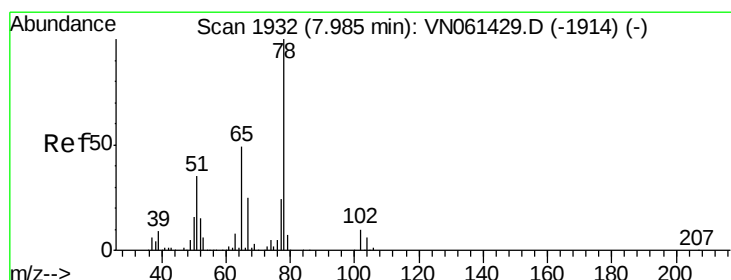
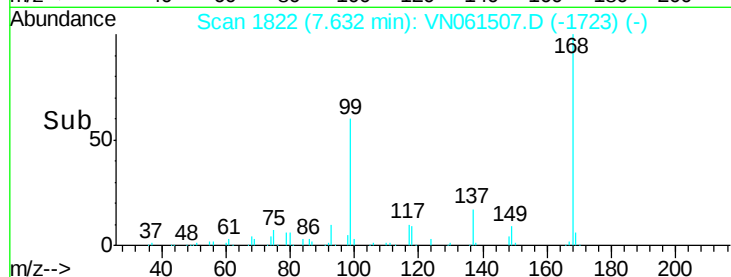
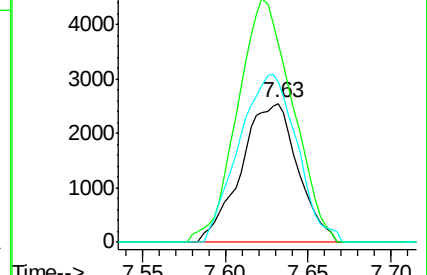
84 115.8 72.7 109.1#



Abundance Ion 56.00 (55.70 to 56.70): VN061507.D (-1795) (-)

Ion 69.00 (68.70 to 69.70): VN061507.D (-1795) (-)

Ion 84.00 (83.70 to 84.70): VN061507.D (-1795) (-)



#33

1,2-Dichloroethane-d4

Concen: 44.796 ug/l

RT: 7.99 min Scan# 1933

Delta R.T. 0.00 min

Lab File: VN061507.D

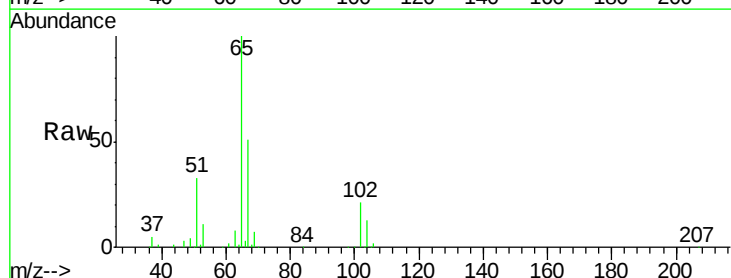
Acq: 20 May 2020 17:50

Tgt Ion: 65 Resp: 186954

Ion Ratio Lower Upper

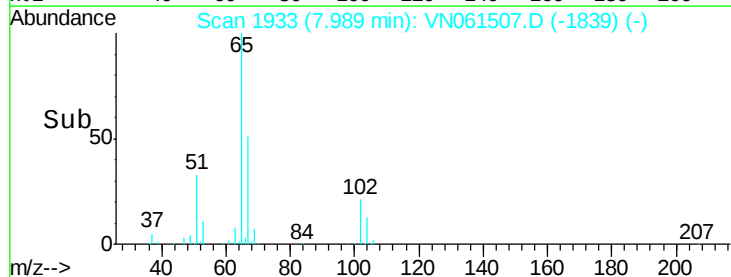
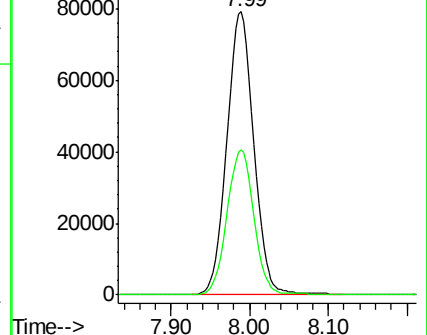
65 100

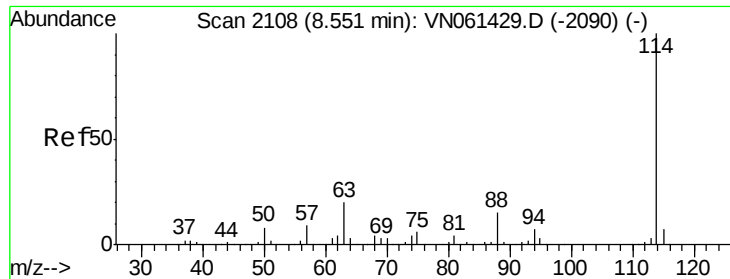
67 50.9 0.0 101.4



Abundance Ion 64.90 (64.60 to 65.60): VN061507.D (-1839) (-)

Ion 66.90 (66.60 to 67.60): VN061507.D (-1839) (-)

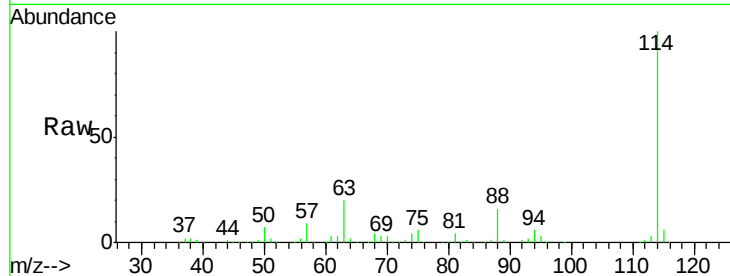




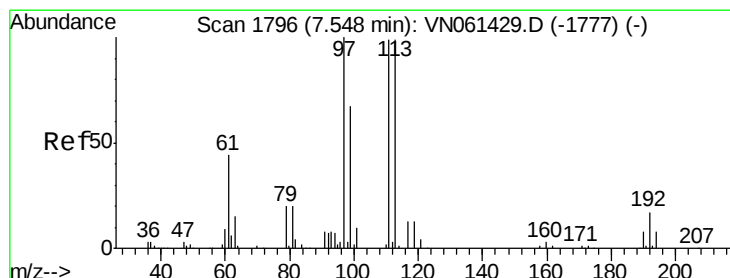
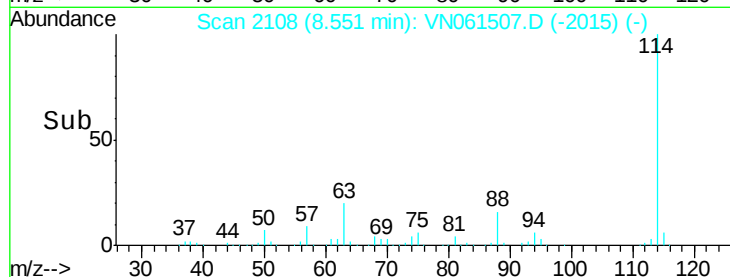
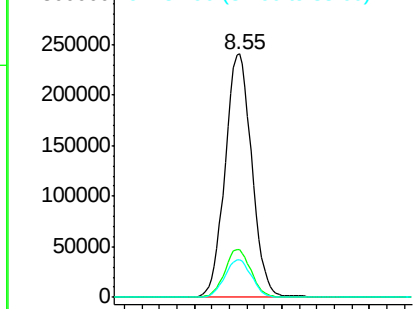
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.55 min Scan# 2108
Delta R.T. 0.00 min
Lab File: VN061507.D
Acq: 20 May 2020 17:50

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:114 Resp: 509594
Ion Ratio Lower Upper
114 100
63 19.5 0.0 40.8
88 15.6 0.0 30.8

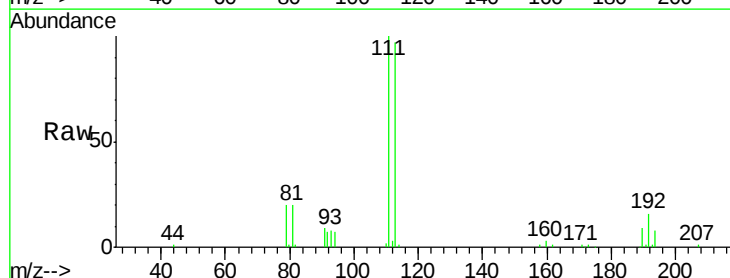


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

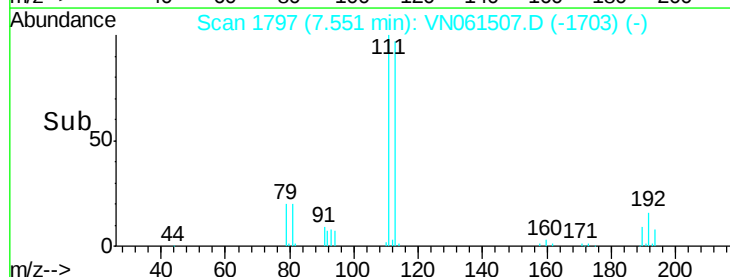
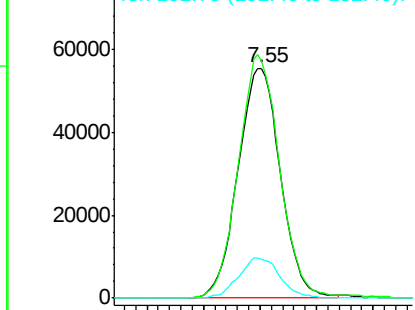


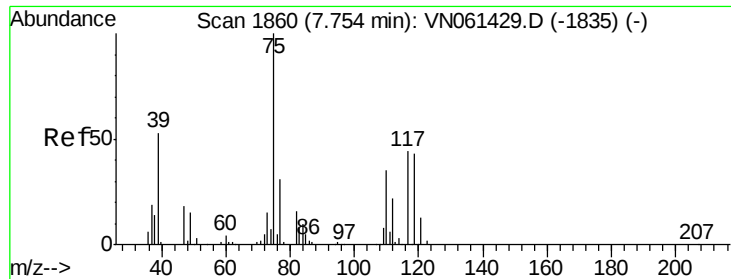
#35
Dibromofluoromethane
Concen: 54.090 ug/l
RT: 7.55 min Scan# 1797
Delta R.T. 0.00 min
Lab File: VN061507.D
Acq: 20 May 2020 17:50

Tgt Ion:113 Resp: 144400
Ion Ratio Lower Upper
113 100
111 102.9 80.6 121.0
192 17.2 13.2 19.8



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

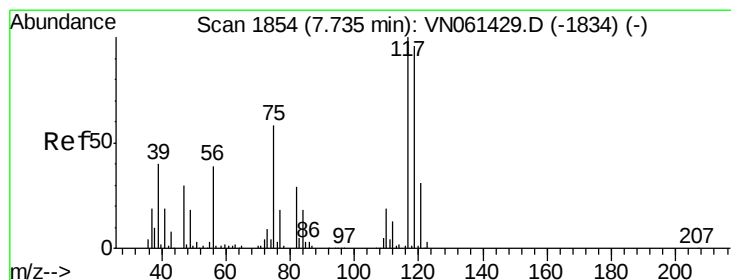
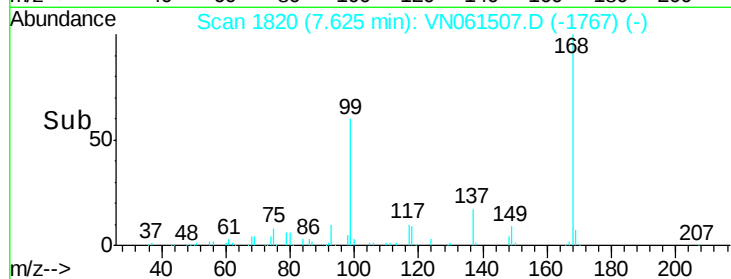
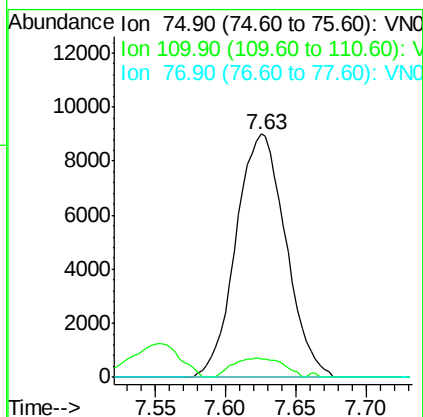
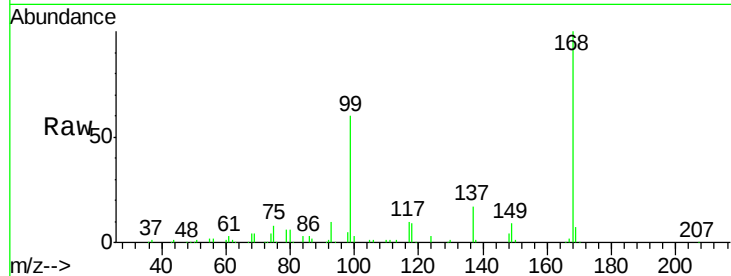




#36
 1,1-Dichloropropene
 Concen: 4.666 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN061507.D
 Acq: 20 May 2020 17:50

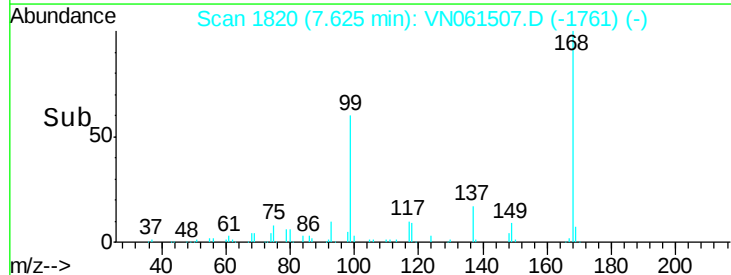
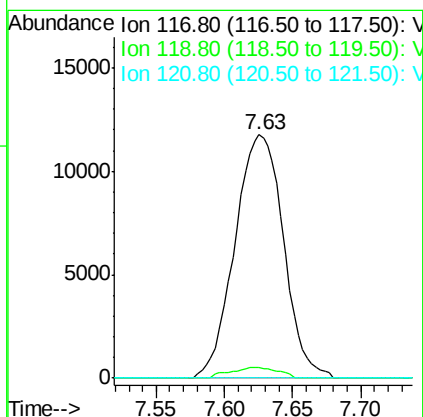
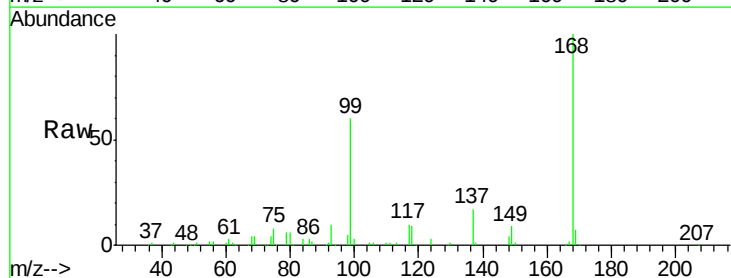
Instrument :
 MSVOA_N
 ClientSampleId :

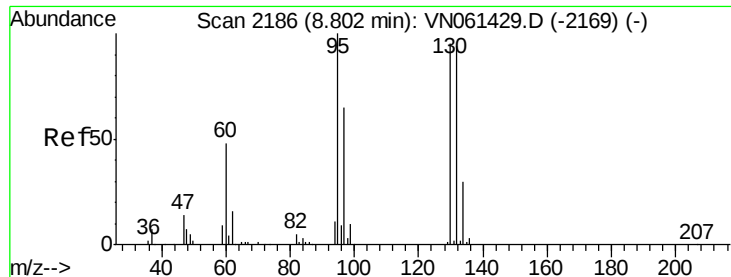
Tot Ion	75	Resp	22235
Ion Ratio	Lower	Upper	
75	100		
110	8.0	17.3	51.9#
77	0.0	24.9	37.3#



#38
 Carbon Tetrachloride
 Concen: 6.627 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.11 min
 Lab File: VN061507.D
 Acq: 20 May 2020 17:50

Tgt Ion	117	Resp	29075
Ion Ratio <td>Lower</td> <td>Upper</td> <td></td>	Lower	Upper	
117	100		
119	4.2	77.0	115.6#
121	0.0	24.7	37.1#

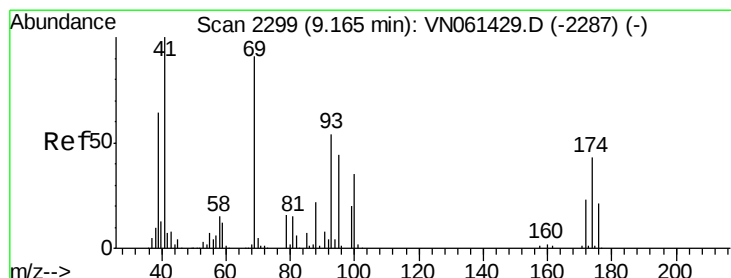
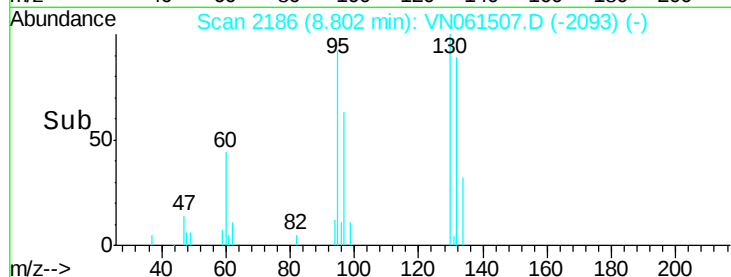
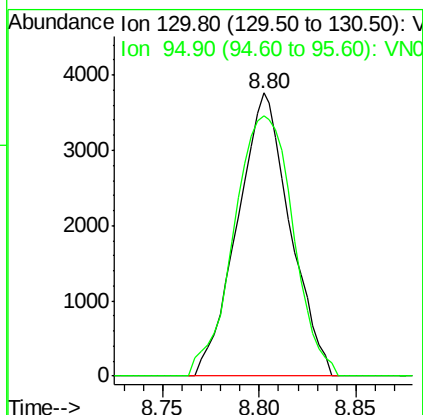
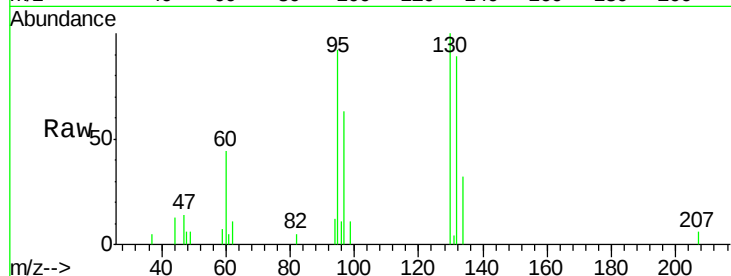




#44
 Trichloroethene
 Concen: 1.888 ug/l
 RT: 8.80 min Scan# 2186
 Delta R.T. 0.00 min
 Lab File: VN061507.D
 Acq: 20 May 2020 17:50

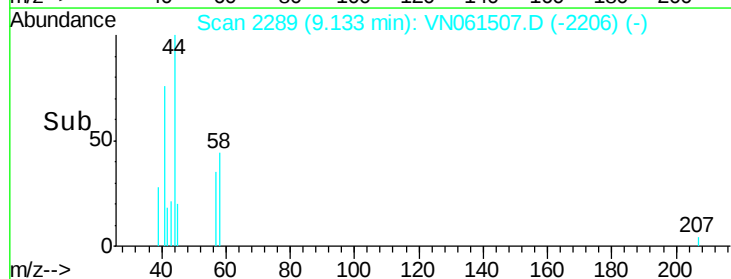
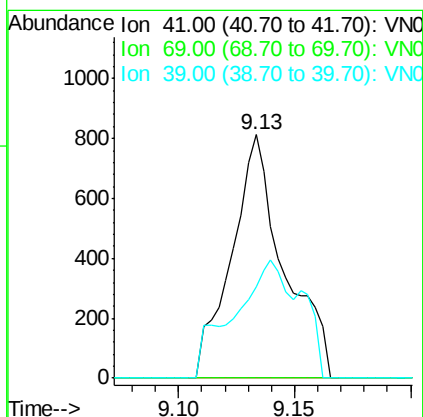
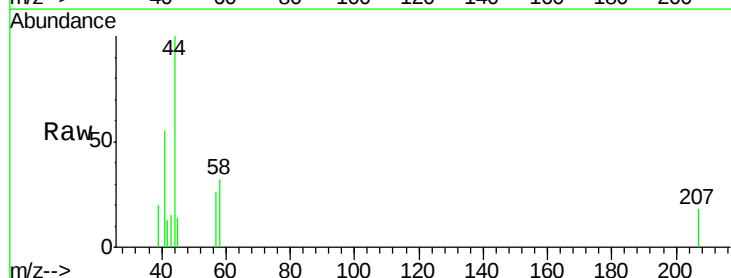
Instrument :
 MSVOA_N
 ClientSampleId :

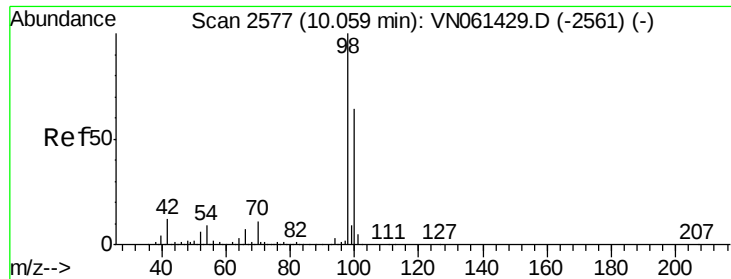
Tot Ion:130 Resp: 7102
 Ion Ratio Lower Upper
 130 100
 95 92.0 0.0 209.8



#48
 Methyl methacrylate
 Concen: 0.366 ug/l
 RT: 9.13 min Scan# 2289
 Delta R.T. -0.03 min
 Lab File: VN061507.D
 Acq: 20 May 2020 17:50

Tgt Ion: 41 Resp: 1275
 Ion Ratio Lower Upper
 41 100
 69 0.0 75.3 112.9#
 39 62.7 52.6 79.0





#50

Toluene-d8

Concen: 50.576 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.00 min

Lab File: VN061507.D

Acq: 20 May 2020 17:50

Instrument :

MSVOA_N

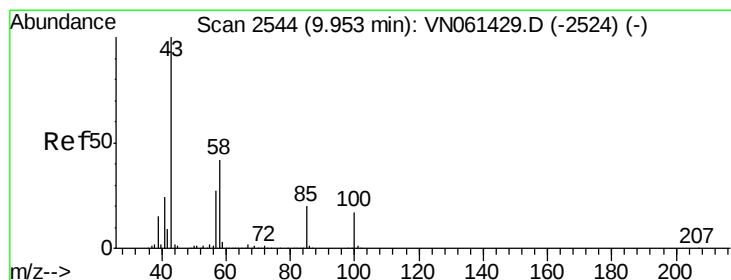
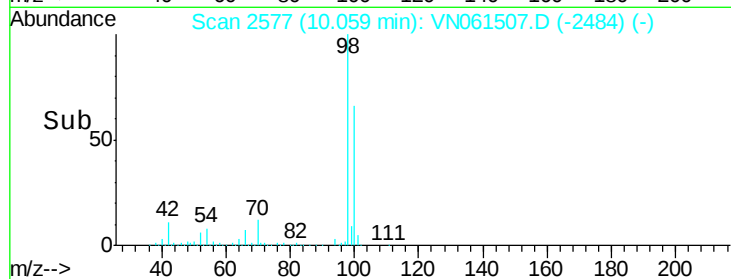
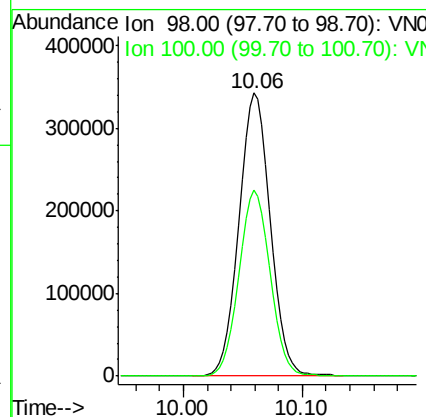
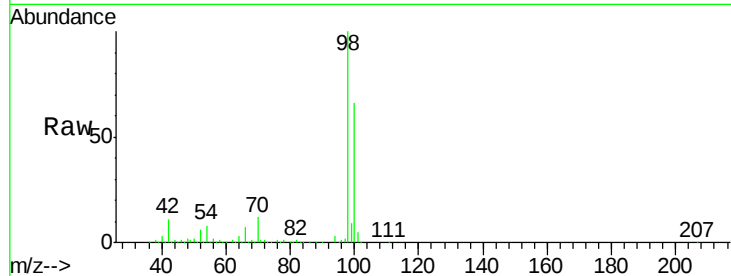
ClientSampleId :

Tot Ion: 98 Resp: 626255

Ion Ratio Lower Upper

98 100

100 65.6 51.8 77.8



#51

4-Methyl-2-Pentanone

Concen: 0.639 ug/l

RT: 10.06 min Scan# 2576

Delta R.T. 0.10 min

Lab File: VN061507.D

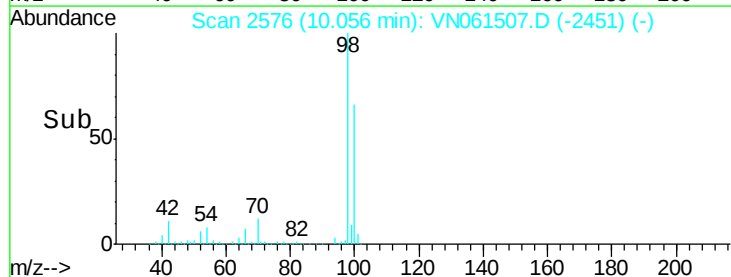
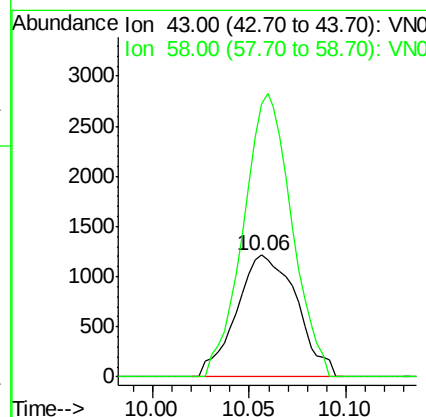
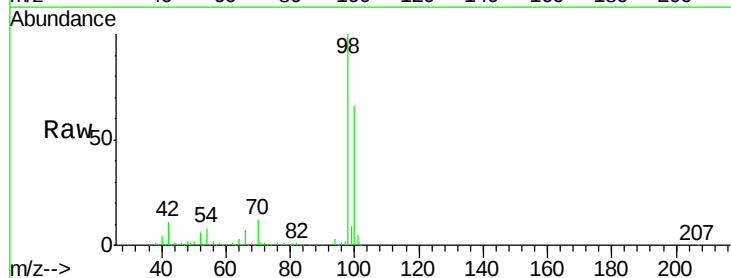
Acq: 20 May 2020 17:50

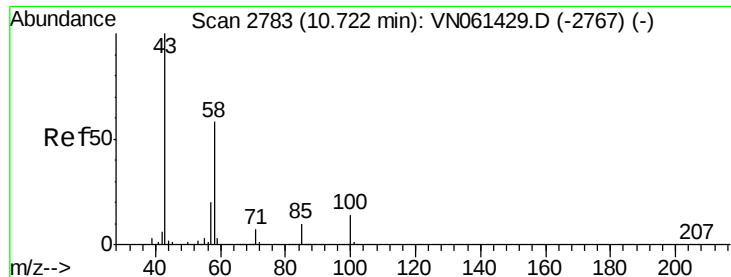
Tgt Ion: 43 Resp: 2623

Ion Ratio Lower Upper

43 100

58 187.4 33.4 50.2#

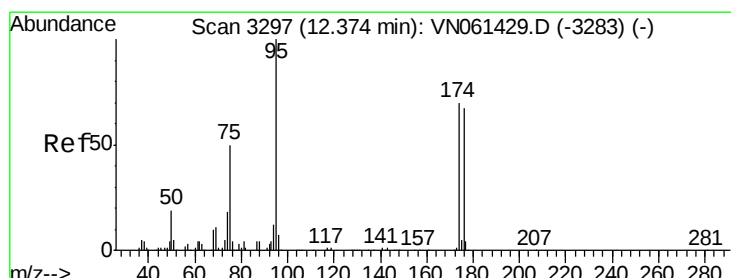
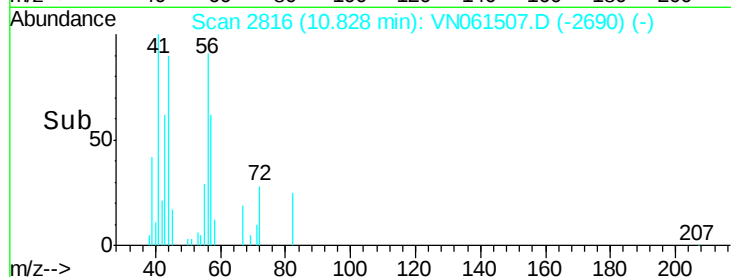
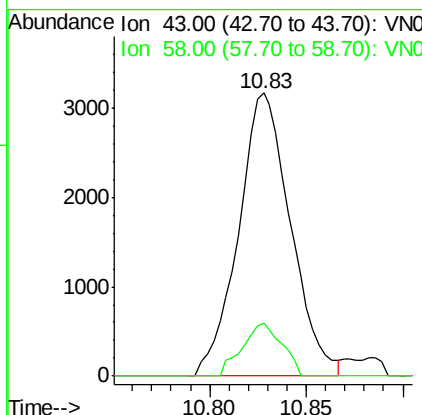
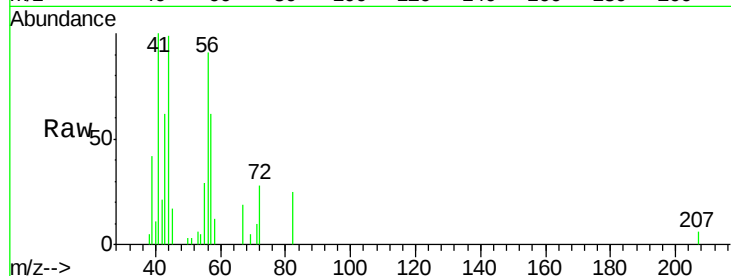




#59
2-Hexanone
Concen: 2.002 ug/l
RT: 10.83 min Scan# 2816
Delta R.T. 0.11 min
Lab File: VN061507.D
Acq: 20 May 2020 17:50

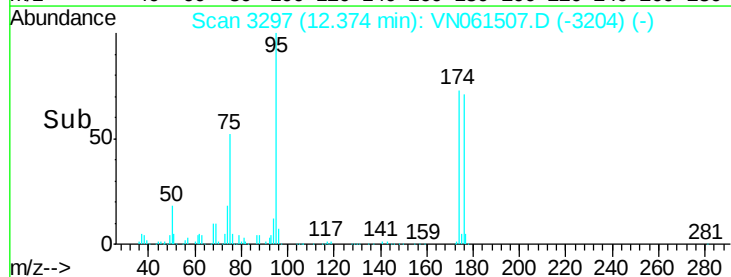
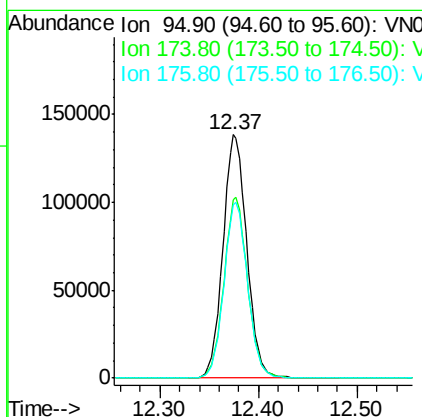
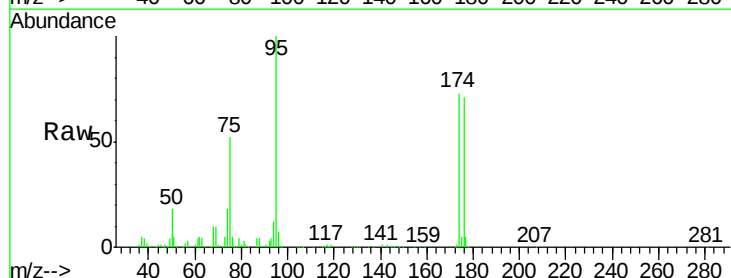
Instrument :
MSVOA_N
ClientSampled :

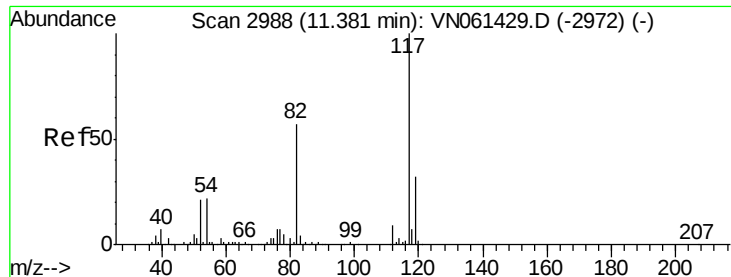
Tot Ion: 43 Resp: 5947
Ion Ratio Lower Upper
43 100
58 14.2 29.2 87.6#



#62
4-Bromofluorobenzene
Concen: 50.742 ug/l
RT: 12.37 min Scan# 3297
Delta R.T. 0.00 min
Lab File: VN061507.D
Acq: 20 May 2020 17:50

Tgt Ion: 95 Resp: 234738
Ion Ratio Lower Upper
95 100
174 73.6 0.0 141.2
176 71.9 0.0 137.6

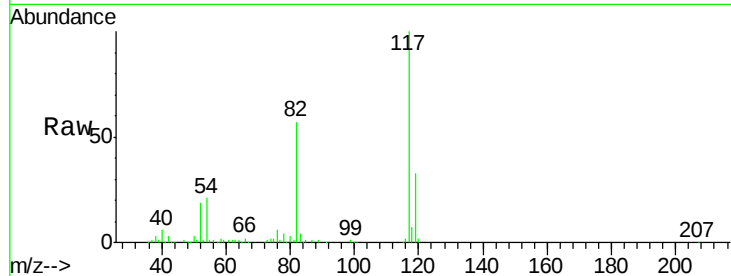




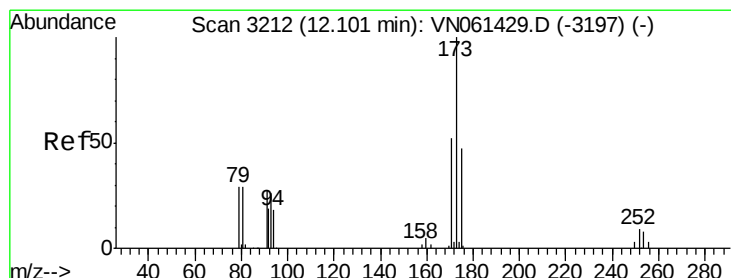
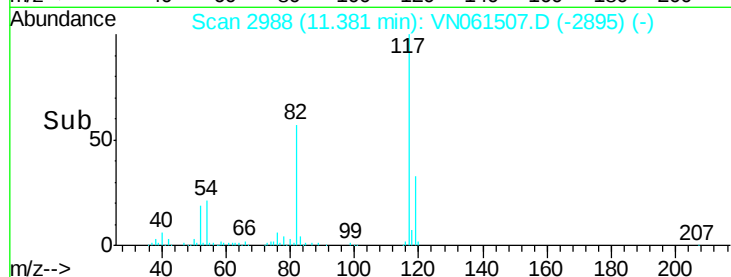
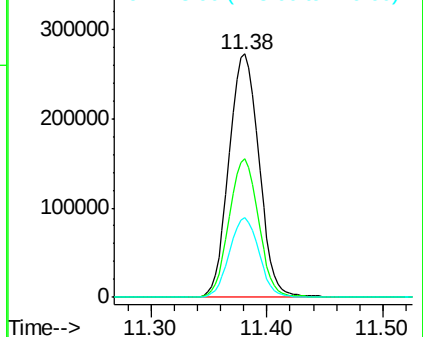
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. 0.00 min
Lab File: VN061507.D
Acq: 20 May 2020 17:50

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 489364
Ion Ratio Lower Upper
117 100
82 56.8 45.2 67.8
119 32.6 25.3 37.9

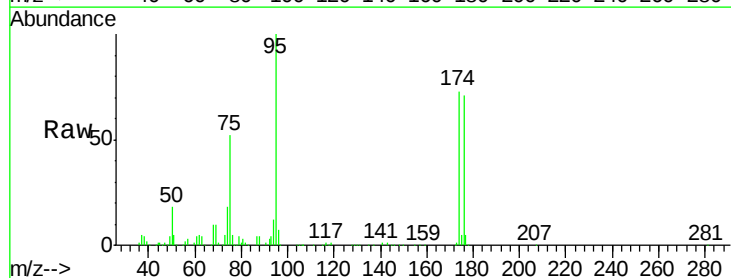


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

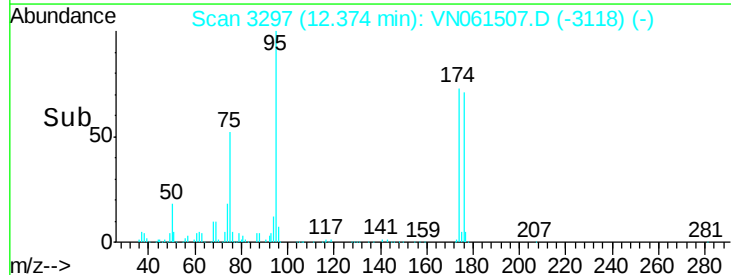
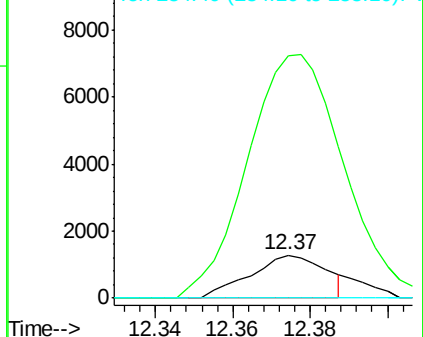


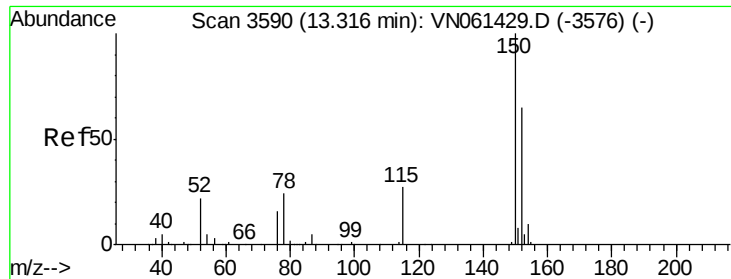
#71
Bromoform
Concen: 2.616 ug/l
RT: 12.37 min Scan# 3297
Delta R.T. 0.27 min
Lab File: VN061507.D
Acq: 20 May 2020 17:50

Tgt Ion:173 Resp: 1726
Ion Ratio Lower Upper
173 100
175 624.9 23.9 71.8#
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# 3590

Delta R.T. 0.00 min

Lab File: VN061507.D

Acq: 20 May 2020 17:50

Instrument :

MSVOA_N

ClientSampled :

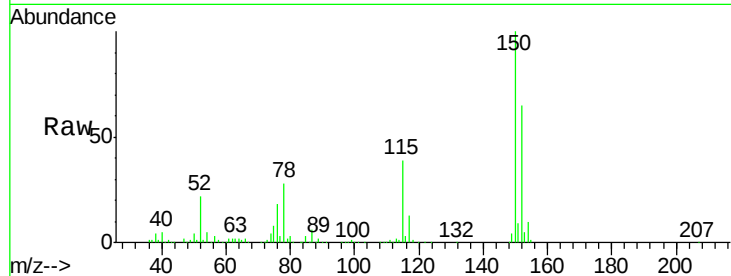
Tot Ion:152 Resp: 210124

Ion Ratio Lower Upper

152 100

115 61.0 30.9 92.5

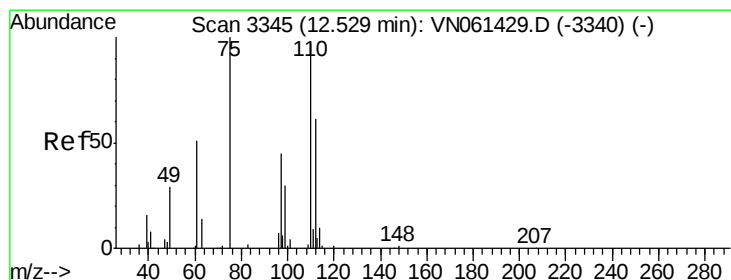
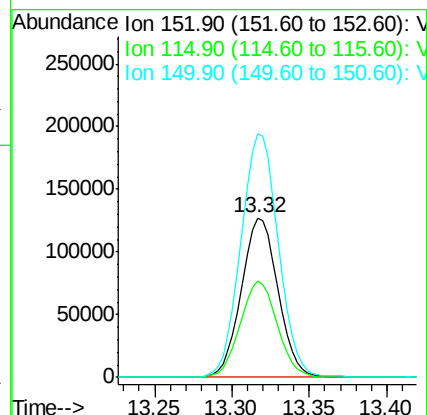
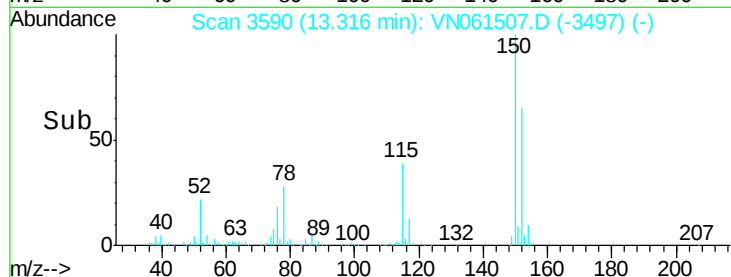
150 156.3 0.0 349.2



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: 27.044 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. -0.15 min

Lab File: VN061507.D

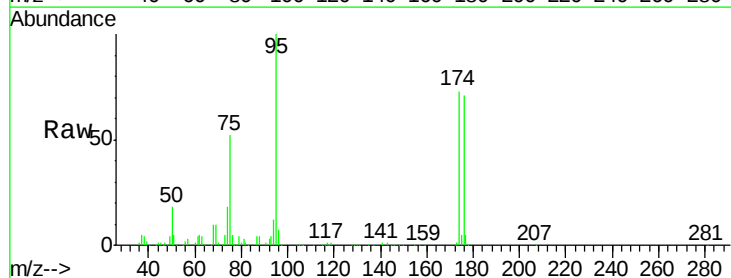
Acq: 20 May 2020 17:50

Tgt Ion: 75 Resp: 121933

Ion Ratio Lower Upper

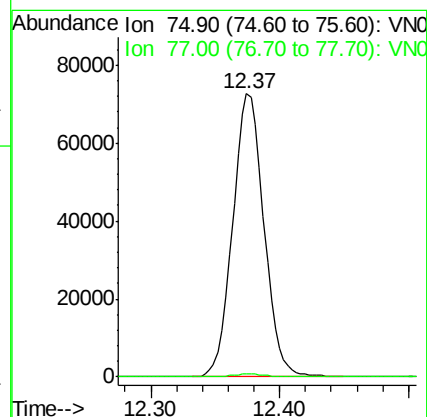
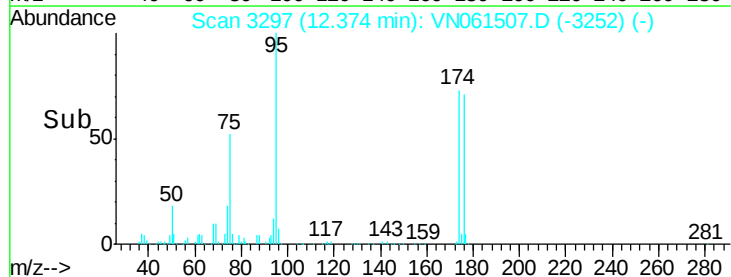
75 100

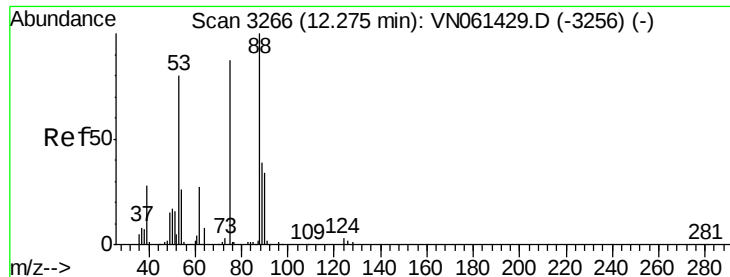
77 0.9 0.0 0.0#



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: 71.741 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. 0.10 min

Lab File: VN061507.D

Acq: 20 May 2020 17:50

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 75 Resp: 121933

Ion Ratio Lower Upper

75 100

53 0.0 75.2 112.8#

89 0.0 38.2 57.4#

